## ANNUAL REPORT

OF THE

# PUBLIC WORKS DEPARTMENT

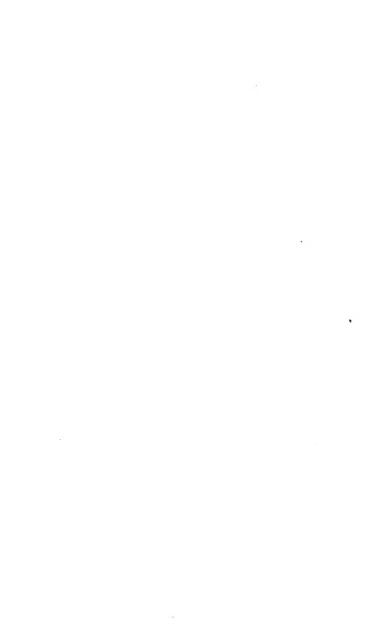


OF THE

CITY OF BOSTON

1924







## ANNUAL REPORT

OF THE

## PUBLIC WORKS DEPARTMENT

FOR THE

## YEAR 1924



COMPLIMENTS OF

Joseph A. Rourke,

Commissioner of Public Works

PLEASE EXCHANGE



## ANNUAL REPORT

OF THE

## PUBLIC WORKS DEPARTMENT

FOR THE

## YEAR 1924



CITY OF BOSTON
PRINTING DEPARTMENT
1925



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#### [DOCUMENT 23 - 1925.]



#### ANNUAL REPORT

OF THE

## PUBLIC WORKS DEPARTMENT

FOR THE

YEAR ENDING JANUARY 31, 1925.

Boston, February 1, 1925.

Hon. James M. Curley,

Mayor of the City of Boston:

SIR,— In compliance with Revised Ordinances the annual report of the operations and expenses of the Public Works Department for the year ending January 31, 1925, is respectfully submitted. The Public Works Department, created by Ordinances 1910, chapter 9, now chapter 28 of the Revised Ordinances of 1914, was formed by consolidating the Engineering, Water and Street Departments.

#### Organization.

The department is composed of five main divisions, viz.:

Central Office.— The Central Office is composed of the accounting force of the entire department under the charge of the secretary and chief clerk. Bridge and Ferry Division.— This division, under a division engineer, has the charge and care of all bridges used as highways which are in whole, or in part, under the control of the city; the care and management of the ferries owned by the city, including boats, slips, drops, and buildings.

Note.—The Boston and Cambridge Division, so called, is not strictly speaking a division of the Public Works Department, as this work is in charge of a commission of two, one member appointed by the Mayor of Boston and the other by the Mayor of Cambridge, under the provisions of chapter 412 of the Acts of 1904; but because of the fact that the present Commissioner of Public Works is the Boston member of this commission and also because one half of the expense of this commission is defrayed by the Bridge Service, it is in this report treated as a division of this department.

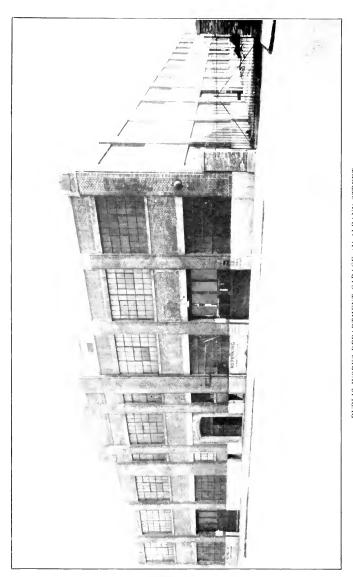
Highway Division.— This division, under a division engineer, has the care of the construction, reconstruction, and maintenance of roadways and sidewalks; the care of lamps and the lighting of streets, parks, and alleys.

Sewer and Sanitary Division.— This division, under a division engineer, has charge of the construction of sewers, catch-basins, and waterways; the collection and removal of ashes, garbage, and refuse; street cleaning; and the oiling and watering of streets.

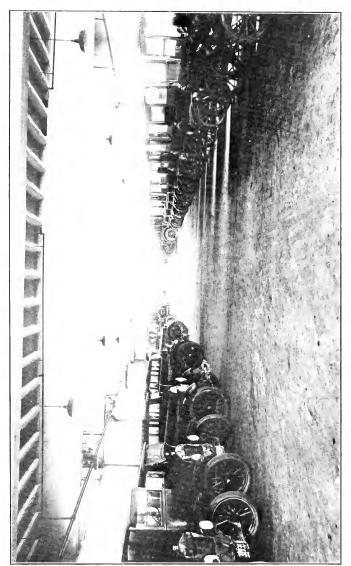
Water Division.— This division, under a division engineer, has the care of water pipes, installation of meters, water service, laying and relaying of water mains, and the high pressure fire service.

#### GENERAL.

The past year witnessed the completion of the Albany street garage in which are housed motor vehicles of all divisions operating within a limited radius from this location, and in which minor repairs are made on all motor equipment for the entire city. This garage is



PUBLIC WORKS DEPARTMENT GARAGE, 624 ALBANY STREET.



PUBLIC WORKS DEPARTMENT GARAGE, UPPER FLOOR.



active during every twenty-four hours of the entire year, and particularly are its services appreciated for the mobilization and equipment of vehicles and plows for snow work in the winter, for night street cleaning, and for emergency purposes.

We are still deficient in garages in the outlying yards, particularly in West Roxbury and in the Hancock street, Dorchester, paving yard, and a loan of \$50,000 should be obtained the coming year for the construction of a garage in the latter yard.

The Park Department has taken over for park purposes the property in East Boston where is now located our Public Works Department yard handling paving, sanitary, water and sewer activities. A new location must be sought elsewhere.

In order to catch up with the deferred reconstruction of bridges, we established a policy of rebuilding four railroad bridges and one drawbridge, all inside the debt limit, during the four years of the administration, as a result of which Cambridge Street Bridge, Allston, Beacon Street Bridge, and Chelsea South Bridge have been completed. Dartmouth Street Bridge is now being reconstructed; and a loan of \$100,000 inside the debt limit should be available for the reconstruction this year of the Massachusetts Avenue Bridge over the New York, New Haven and Hartford Railroad.

Congress Street Bridge has been in deplorable condition for some time past and should be replaced at once with a bascule draw span, at an estimated cost of \$800,000 and authority for a loan for this amount, outside the debt limit, should be sought from the Legislature. The above record of reconstruction within the debt limit justifies this request.

During the Peters administration a loan of \$1,000,000 outside the debt limit, was allowed by the Legislature for ferry improvements, including the construction of two new ferryboats. We have built two double teaming drops of modern design, and a contract has been

awarded for a second pair of drops, which are now nearing completion and which will greatly facilitate vehicle travel on and off the boats at the South Ferry.

Before similar drops can be installed at the North Ferry it will be necessary to provide new boats, in order to support properly the outboard end of the modern drop which rests on the boat itself. The "Hugh O'Brien," a side-wheel boat, was built in 1883 and should be scrapped and sold as junk. The "Governor Russell" was built in 1898 and is in fair condition for ordinary traffic with the old drops. The "General Sumner," built in 1900, is in very poor condition both for heavy traffic and for supporting the new drops. Hence an immediate necessity exists for the construction of two new steel boats of the Sullivan-Flaherty-Palumbo type, which are the only three modern boats now in service at the ferries, although the "Noddle Island" was rebuilt in 1921 and is a substantial wooden craft well fitted for service for many years. A loan of \$1,000,000 outside the debt limit, should be requested of the Legislature to provide for ferry improvements, including two new boats, and whatever balance remains to be utilized for drops.

Our paved roadways are rapidly deteriorating because of heavy traffic due to motor truck transportation, and particularly is this true of the heavily loaded trucks engaged in inter-city and state transportation. The state built and now maintains as a general traffic highway about a mile and a half of boulevard on Washington street, West Roxbury, northwest from the Dedham line, and this is the total contribution to the City of Boston from state highway funds. In addition to what might be called city highways, we must maintain and keep in good condition various main traffic arteries from the center of the city to the outskirts, from five to nine miles in length, which take care of this traffic, and yet the city receives not one cent of the income from motor vehicles collected by the state.

We have available each year but \$1,000,000 for the reconstruction and repair of streets by contract, a sum hopelessly inadequate for the purpose, and it is extremely unfair to the city to deny it a certain proportion of the receipts from automobile fees now spent by the State Department of Public Works on traffic highways in other parts of the state, than in the City of Boston.

At present, due to statutory limitations, we can spend only \$1,000,000 within the debt limit for sewerage works each year. This is hopelessly inadequate and the Legislature should be petitioned for authority to increase this amount to \$1,500,000. Such approval was refused by last year's Legislature; but when it is considered that twenty years ago we spent \$1,500,000 for sewerage works, and we are flooded with petitions for sanitary sewers for new dwellings throughout the city, and there is a continuous necessity for covering open brook courses in order that flood conditions in new and o'ld built-up sections shall be avoided, the justice of this request becomes apparent.

At present we assess upon abutters for sanitary sewers \$2 per lineal foot of frontage on each side of the street, which was also established by law when the cost of sewerage works was much less than it is today. The average cost for such construction amounts to \$10 per lineal foot, and there is no reason why this assessment should not be increased by statutory amendment to at least \$4 per lineal foot.

Attention is again called to the relinquishment to the Massachusetts General Hospital of the North Grove street sanitary yard and the substitution of another yard either on the land of the Boston Elevated Railway or on that of the New York, New Haven and Hartford Railroad at Commercial street, on the waterfront, and the installation of an incinerator for the North and West Ends and city proper districts.

The disposal of litter and ashes in inland dumps, both in the day labor and contract districts, should be superseded within a short time by incineration which, when adopted, will include garbage. Within two years the South Bay dump will be filled, and whether or not incineration for this district is provided previously, another slip to handle refuse and ashes should be constructed alongside the existing garbage slip at Albany street in 1926, which will be in accordance with the requirements of the Coleman disposal contract under which the material must be received and disposed of by the contractor.

During the past ten years—from 1914 to 1923, inclusive—there was turned back into the city treasury from excess water revenue over \$2,000,000, a greater part of which should have been spent in reinforcing old main supply lines into the city. The two low service supply lines to the city are a 48-inch in Beacon street, laid in 1859, and a 30 and 36-inch in Tremont street, laid in 1847. The condition of the latter lines in Tremont street, between Castle street and the Common is such that the gates are kept closed and will be opened only for emergency purposes. These pipes cross the existing railroad bridge at Castle street in an overhead crossing and will have to be removed on account of the Tremont street widening.

In order that the low service supply to the city may be guaranteed, we should continue the existing 48-inch line which comes direct from the reservoir down Beacon street and Commonwealth avenue to Massachusetts, by extending it down Commonwealth avenue into the Common, thus replacing the Beacon street line which may go out of service at any time. The present 30 and 36-inch mains in Tremont street should be united into one 48 and carried in a tunnel either under Tremont Street Bridge or Berkeley Street Bridge and through Park square into Charles street and connect with the new 48-inch from Commonwealth avenue. A loan of \$800,000 outside the debt limit should be sought from the Legislature, in order that this work may be prose-

cuted immediately, since the safety of the city proper from conflagration depends particularly upon these two old existing pipe lines.

The next fiscal year will end on December 31, 1925, and the fourth quarter's water income will not be available as in previous years. In order to provide services in locations where no mains now exist, to practically complete the high pressure fire service, and to provide other necessary extensions, the City Council should be requested to approve a loan outside the debt limit for this work, in accordance with chapter 44, section 8, of the General Laws.

Respectfully submitted,

Joseph A. Rourke, Commissioner of Public Works.

## Expenditures Under the Maintenance Appropriation of the From February 1, 1924,

		GROUP AND ITEM.	Central.	Bridge.	Ferry.
 A.	Perso	ONAL SERVICE AS PER SCHEDULE A:			٠
	1.	Permanent employees	\$80,630 29	\$326,381 27	\$303,669 07
	2.	Temporary employees		18,859 57	11,373 89
	3.	Unassigned		5,259 83	7,196 77
B.	SERV	ICE OTHER THAN PERSONAL:			
	1.	Printing and binding	600 00		406 71
	2.	Postage	200 16	129 68	4 00
	3.	Advertising and posting		19 20	44 45
	4.	Transportation of persons	231 31	556 62	83 95
	5.	Cartage and freight		3 94	317 10
	6	Hire of teams and auto trucks		120 26	3,276 97
	7.	Heat			1,477 57
	8.	Light and power		9,438 39	6,323 09
	9.	Lighting streets, alleys and parks			
	10.	Rent, taxes and water		318 81	306 07
	12.	Premium on surety bonds	6 00		85 00
	13.	Communication	37 84	194 91	249 52
	14.	Motor vehicle repairs and care	291 25	2,449 72	49 60
	15.	Motorless vehicle repairs			
	16.	Care of horses			
	18.	Cleaning		15 00	36 00
	19.	Removal of ashes, dirt and garbage			
	20.	Disposal of ashes, dirt and garbage			
	21.	Removal of snow			
	<b>2</b> 2.	Medical			
	<b>2</b> 3.	Veterinary			
	24.	Blacksmith			
	27.	Testing materials and supplies			
	28.	Expert and architect			
	29.	Stenographie, copying and indexing			
	32.	Towing			340 00
	35.	Fees, service of venires, etc	. 12 00	42 00	
	36.	Boiler inspection		. 15 00	20 00
	37.	Photographic and blueprinting		. 7 50	
	39.	General plant	. 91 75	35,901 70	69,797 07
	40.	Harness, etc., repairs			
	41.	Horseshoeing and clipping			.
	42.	Repairing streets, etc			.

Several Services by Items of the Segregated Budget. to January 31, 1925.

Totals.	Water.	Sewer.	Street Cleaning and Sanitary.	Paving.	Lighting.
<b>\$</b> 4,35 <b>4,2</b> 03 1	\$815,074 02	\$378,060 77	\$1,505,222 04	\$938,522 94	\$6,642 73
100,488 5	11,400 60	1,974 75	51,551 62	5,328 13	\$0,012.10
116,414 6	21,791 23	12,919 43	49,667 26	19,580 15	
110,414 0	21,731 23	12,515 45	43,007 20	1.,,55 15	************
2,345 5	364 85	i 204 00	770 00		
1,852 5	536 87	264 06	291 52	396 27	30 00
309 0	32 50	17 00	79 50	86 35	30 00
12,297 1	9,074 50	1,261 11	211 90	862 73	15 00
756 5	269 33	37 37	121 92	6 89	
145,598 8	305 35	60 00	107,535 97	34,300 26	
5,029 5	3,503 08	48 85			
26,555 5	1,850 56	3,245 39	3,892 24	1,805 83	
802,771 9					802,771 91
8,140 6	815 25	829 17	1,783 33	4,088 00	
128 0	25 00		3 00	9 00	
6,219 0	1,916 26	711 30	1,434 18	1,675 08	
42,903 9	6,933 09	1,596 85	20,921 84	10,468 04	193 54
33,712 0	277 86	223 60	31,375 23	1,835 32	
9 0			9 00		
84,111 5	28 90	83,594 16	268 20	169 30	
368,344 7		160 76	368,184 00		
350,656 4	126 50		350,418 25	111 73	
76,479 0				76,479 05	
38 0		38 00			
560 1			505 11	55 00	
2,640 8	69 35	421 70	365 30	1,781 51	
13 5	13 50				
1,400 0	1,400 00				
60 3					60 34
340 0					
2,933 0	1,211 00	173 00	759 00	726 00	10 00
142 0		47 00		60 00	
154 0	11 50			135 00	8 · 5 · · · · · · · · · · · ·
270,464 4	85,249 21	24,168 46	30,079 90	6,731 23	18,445 17
489 5	19 50	15 75		454 30	
14,129 9	601 85	13 97	8,424 59	5,089 55	
66,936 9	53,452 30	1,374 15		12,110 47	

## Expenditures Under the Maintenance Appropriation of the From February 1, 1924,

		GROUP AND ITEM.	Central.	Bridge.	Ferry.
С,	Equi	PMENT			
	2.	Machinery			
	3.	Electrical			
	4.	Motor vehicles	\$1,255 08	\$4,925 54	
	5.	Motorless vehicles			\$900 00
	6.	Stable			
	7.	Furniture and fittings		129 40	17 80
	9.	Office	88 00		
	11.	Marine			3,959 02
	13.	Tools and instruments		1,875 77	4,016 11
	14.	Live stock			
	16.	Wearing apparel			97 50
	17.	General plant		144 41	2,196 65
D.	SUPP	THES:			
	1.	Office	2,664 04	1,650 51	727 09
	2.	Food and ice	95 95	95 93	83 10
	3.	Fuel		4,442 56	75,278 43
	4.	Forage and animal			
	5.	Medical, surgical, laboratory			
	7.	Veterinary			
	8.	Laundry, cleaning, toilet	1 12	96 49	395 85
	11.	Motor vehicle	306 32	1,508 77	
	13.	Chemicals and disinfectants		1 30	253 10
	16.	General plant		1,456 87	4,056 20
E.	MATI	ERIALS:			
	1.	Building		229 16	140 52
	2.	Highway			
	3.	Bridges		34,689 99	
	4.	Ferries		ļ <b></b>	13,319 21
	5.	Sewer			
	6.	Water			
	9.	Machinery		310 10	
	10.	Electrical		892 59	1,642 63
	13.	General plant		19 51	
F.	SPECI	IAL Prems:			
	2.	Damages			
	7.	Pensions and annuities		5,194 72	10,554 27
	11.	Workingmen's compensation		694 28	833 15
		Totals	\$86,511 11	\$458,071 30	\$523,527 46

Several Services by Items of the Segregated Budget.—Concluded. to January 31, 1925.

Lighting.	Paving.	Street Cleaning and Sanitary.	Sewer.	Water.	Totals.
	\$6,850 00				\$6,850 00
				\$491 41	491 41
\$32 97	847,733 40	\$46,058 59	\$10,903 56	18,617 56	129,526 70
		17,587 48			18,487 48
	625 31	2,830 02	76 25	207 70	3,739 28
	439 65	\$3 25		2,259 31	2,929 41
	433 03		178 00	600 66	1,299 69
					3,959 02
	10,825 33	9,838 31	2,316 37	97,125 34	125,997 23
		7,000 00			7,000 00
	25 00	81 90	826 63	489 50	1,520 53
1,971 50	1,229 09	2,088 35	3,223 69	90 55	10.944 24
157 44	6,371 14	3,311 61	1,968 74	9,972 63	26,823 20
	297 56	2,566 71	317 45	55 25	3,511 95
	9,187 45	4,431 05	59,656 91	1,817 24	154,813 64
	23,112 20	96,790 05	1,587 11	2,692 51	124,181 87
			12 65		12 65
	28 25	231 10			259 35
•	146 33	145 86	171 69	102 02	1,059 36
185 30	10,727 18	11,632 76	1,695 92	7,922 67	33,978 92
	153 15	190 75	262 19	59 60	920 09
	3,920-26	1,636-18	3,900 59	5,115 63	20,085 73
	1,198 71	2,382 21	2,667 67	359 70	6,977 97
	158,893 93	30,373 20			189,267 13
					34,689 99
					13,319 21
			12,812 03		12,812 03
				381,629 80	381,629 80
					310 10
	147 41	195 84	357 26	1,088 61	4,324 34
	14,538 36	38,234 48	9,998-37	4,349 96	67,140 68
	· · • · · · · · · · · · · · · · · · · ·			34,124 52	34,124 52
181 00	26,195 64	21,780 24	8,915 54	19,542 16	92,363 57
	5,594 87	19,028 85	2,616 52	3,251 81	32,019 48
\$830,726 90	<b>\$</b> 1,451,541 38	\$2,852,373 69	\$635,928 74	\$1,608,320 10	\$8,147,000 68

#### Personnel Expenditures Under the Maintenance Appropriation From February 1, 1924,

GROUP AND ITEM,	Central.	Bridge.	Fеггу.
Commissioner	\$9,000 00		
Division engineers		\$3,750 00	\$1,250 00
Engineers in charge			
Clerks and stenographers	60,557 33	3,532 01	1,386 59
Messengers			
Assistant engineers (civil)		11,657 89	
Draughtsman		6,776 41	
Instrumentmen		6,024 20	
Rodmen		447 05	
Inspectors		2,374 55	
Foremen		2,088 36	
Subforemen		5,559 00	
Address printers	<b></b> .		l
Blueprinters			
Chauffeurs	1,633 67	6.576 42	390 00
Cement testers			
Chief inspectors.	-,		
Chemist and assistant.	1		
Claim agent.			
Cashiers			2,005 48
Constables			2,000 10
Coalpassers			
Captains .			28,719 27
Drawtenders.		1	20,710 27
Deckhands			
Engineers (steam)		1	28,072 50
Electricians		1,888 40	1,888 40
Emergencymen			
Feeders		1	
Gatemen (ferry)			1
General foremen	1	1	
Joiners	1		
Laborers, janitors, teamsters, watchmen, stablemen,	te	i	25,387 66
Mechanics		. 29,683 50	25,319 48
Masons		.	
Meter readers			

of the Several Services by Items of the Segregated Budget. to January 31, 1925.

Lighting.	Paving,	Street Cleaning and Sanitary.	Sewer.	Water.	Total.
			. ,		\$9,000
\$1,250 00	\$3,750 00	\$3,333 33	\$1,666 67	\$5,000 00	20,000 00
	750 00		2,005 16	3,500 00	6,255 16
3,592 73	27,808 24	4,113 12	5,179 39	79,422 40	185,591 81
	85 84				85 84
	6,200 24		8,373 88	9,550-82	35,782 83
	628 62		5,580 60	4,166 66	17,152 29
	4,994 26		11,696 08	8,592 33	31,306 87
	1,297 17		2,993 40		4,737 62
1,800 00	44,383 89	136,251 88	46,248 30	53,593 00	284,651 62
	24,826 61	41,274 85	6,039 62	20,651 16	47,880 60
	41,248 14			1,700 00	48,507 14
				1,150 01	1,150 01
					4,345 86
	4,334 00	30,604 37	7,411 00	20,456 00	71,405 46
					4,564 11
	1,250 44				1,250 44
	427 67				427 67
					529 32
	Ç				2,005 48
	2,005 48	4,760 82		6,247 80	13,014 10
			11,114 82		11,114 82
					28,719 27
					227,387 68
					36,836 00
	20,094 50		11,909 81	1,700 00	61,776 81
			3,776 80		7,553 60
				26,244 75	26,244 75
	1,056 50	11,962 25			13,018 75
					23,094 32
	2,921 78	6,016 44	2,482 88	4,944 58	19,373 90
					1,945 40
	547,505 19	1,178,471 49	115,670 50	236,832 13	2,119,319 44
	182,820 38	69,380 69	20,206 87	250,746 64	578,157 56
			14,792 60		14,792 60
				47,274 57	47,274 57

#### Personnel Expenditures Under the Maintenance Appropriation of From February 1, 1924,

GROUP AND ITEM.	Central.	Bridge.	Ferry.
Medical inspectors		\$183 33	\$83 33
Oilers and firemen			80,232 50
Quartermasters			22,103 93
Sealers			
Sewer gatemen, cleaners, etc			
Supervisors		3,000 00	
Storekeepers			
Stockkeepers			1,486 98
Superintendent and deputy			
Telephone operator			
Tollmen			20,459 01
Veterinarian			<b></b>
Wharfingers			
Wharfmen			
Weighers			
Pavers			
Yardmasters			
Yardmen			
Permanent	\$80,630 29	\$326,381 27	\$303,669 07
Temporary		18,859 57	11,373 89
Unassigned (overtime and other departments)		5,259 83	7,196 77
Totals	\$80,630 29	\$350,500 67	\$322,239 73

the Several Services by Items of the Segregated Budget.—Concluded. to January 31, 1925.

		·			
Lighting.	Paving.	Street Cleaning and Sanitary,	Sewer.	Water.	Total.
	\$366 66	\$2,058-29	\$91.67	\$550 00	\$3,333 28
	7.907 75		62,178 00	3,139 00	153,457 25
					22,103 93
				4,629 00	4,629 00
			30,421 51		30,421 51
	2,607 12	3,509 59		2,005 48	11,122 19
				1,770 34	1,770 34
		517 18			2,004 16
	1,417 95		3,309 04	6,108 22	10,835 21
		1,286 20		1,090 00	2,376 20
					20,459 01
	500 00	2,250 00	125 00	125 00	3,000 00
		3,357 62			3,357 62
	1,486 98	1,586 94			3,073 92
			1,700 00	4,980 00	6,680 00
				1,804 90	1,804 90
	5,847 53	1,486 98	3,087 17	7,099 23	17,520 91
<b>\$</b> 6,642 73	<b>\$9</b> 38,522 94	\$1,505,222 04	\$378,060 77	\$815,074 02	\$4,354,203 13
	5,328 13	51,551 62	1,974 75	11,400 60	100,488 56
	19,580 15	49,667 26	12,919 43	21,791 23	116,414 67
<b>\$</b> 6,642 73	<b>\$963,431</b> 22	\$1,606,440 92	8392,954 95	\$848,265 85	<b>\$</b> 4,571,106 36

Cost of Maintenance of the Public Works Department Since 1915.

DIVISION AND SERVICES.	1916-17.	1917–18.	1918–19.	1919-20.	1920-21.	1921-22.	Special Account, 1921-22.	1922-23.	1923-24.	1924-25.
Central Office	\$74,206 04	\$73,965 70	\$73,074 04	\$79,909 15	\$91,373 98	\$88,308 02	\$3,072 64	\$100,457 23	\$84,717 60	\$86,511 11
Bridge Service	277,847 65	304,720 63	323,601 28	363,130 05	410,216 53	392,589 05	15,805 42	382,413.98	387,220 23	426,330 81
Boston and Cambridge Bridges	18,945 39	21,587 66	23,942 63	26,390 52	26,783 42	77 606,72	2,433 95	97,669 10	30,832 74	31,740 49
Ferry Service	303,917 18	355,480 17	393,783 69	436,687 75	574,754 54	496,836 35	21,483 21	497,091 70	498,684 78	523,527 46
Lighting Scrvice	772,769 97	773,541 76	549,350 56	714,821 55	722,134 24	722,091 55	134,127 03	734,059 09	747,191 63	830,726 90
Paving Service	802,150 73	949,803 41	1,006,628 46	1,063,059 16 1,023,332	1,023,332 59	1,110,496 07	34,869 68	925,828 45	1,140,959 74	1,208,503 43
Removal of Snow	303,570 39	203,210 45	138,659 39	78,802 12	663,111 55	215,399 21	6,611 10	416,720 51	364,713 64	349,375 57
Sanitary Service	969,438 86	1,031,156 99	1,106,933 20 11,265,581	11,265,581 65	1,508,102 71 \$1,629,078	\$1,629,078 98	105,288 95	105,288 95 1,831,685 38	1,895,984 45 \$2,073,913	\$2,073,913 32
Sewer Service	322,199 03	379,483 30	452,310 71	472,713 49	616,461 55	607,043 15	25,419 60	567,758 00	605,796 63	635,928 74
Street Cleaning Service	428,899 28	516,475 67	556,830 98	607,992 26	700,031 01	640,179 28	23,637 66	627,203 22	607,583 55	592,645 85
Street Watering and Oiling Service*	121,450 68	110,488 14	137,150 39	118,014 00	186,763 20	145,454 29	491 24	122,865 88	108,842 33	79,476 90
Water Service	917,823 64	917,823 64 1,045,543 65 1,055,842 87 1,010,634 32 1,253,166 33 1,232,418 76	1,055,842 87	1,010,634 32	1,253,166 33	1,232,418 76		1,354,555 93	41,656 57 1,354,555 93 1,229,573 73	1,608,320 10
Totals	\$5,313,218 84	\$5,765,457 53	55,809,108 20	\$6,237,742 02	\$7,776,231 65	\$7,307,894 48	\$414,896 05	\$7,588,317 47	\$414,896 05 \$7,588,317 47 \$7,702,101 05 \$8,447,000 68	8,447,000 68

Engineering and Water Departments were consolidated into the Public Works Department, February 1, 1911. Includes \$12,100 paid by Street Cleaning and Oiling Service. Includes \$22,445.71 paid by Street Cleaning and Oiling Service. Includes \$142,778, 69 paid by Street Cleaning and Oiling Service.

#### Revenues 1924-25.

On A	$\epsilon count$	of	the	Public	Works	Departn	nent.	Credited	to
	Gener	al I	Reven	ue, as p	er City	Auditor's	State	ment.	
Bridge	Servic					2275	74		

Bridge Service:				
Bridge repairs			\$875 74	
Rent			400 00	
Rent		•	80 78	
Maintenance etc. Ch	noleo:	· ·	00 10	
Dwidge	16196	ı	25,000 00	
Bridge			25,000 00	\$26,356 52
D C				\$20,550 52
Ferry Service:			200 100 17	
Tolls			\$80,102 17	
Free ferries Cleaning booths			1 00	
Cleaning booths			48 00	
Commission on telephor	nes		128 70	
Sale of old material .			64 68	
Rents			417 16	
Headhouse privileges .			400 00	
racumouse primages .				81,161 71
Lighting Service:				01,101 11
Lighting bridge			\$2,630 89	
Lighting bridges Damages to lamp-posts			336 00	
Damages to lamp-posts			990 OO	2.000.00
D : G :				2,966 89
Paving Service:			200 510 50	
Sidewalk assessments .			\$38,518 78	
Labor and materials .			11,535 60	
Permits			33,320 47	
Permits			643 18	
Sale of material Labor and material	cha	pter		
28, section 9 (or se	ection	ns 9		
and 10), Revised Ordi	inanc	es .	1,065 25	
Inspectors' services .			1.995 00	
Rents			25 00	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			75	
Lacess charges				87,104 03
Sanitary Service:				01,101 00
			@104 656 74	
			\$104,656 74	
Sale of manure				
Sale of old material .			1 00	105 510 00
	~			107,716 82
Street Cleaning and Oiling	g Ser	vice:		
Removing dirt			\$656 25	
Board of horse			$283 \ 50$	
Sale of tank			150 00	
Oiling streets			22 00	
			40 00	
Rent			200 00	
		•		1,351 75
Carried forward .				\$306,657 72

Brought forward		\$306,657 72
Sewer Service:		,
Entrance fees Labor and material	. \$9,285 01	
Labor and material		
Assessments Inspectors' services Pumping sewage Damage to automobile Sale of material	. 59 64 . 124 11	
Inspectors' services	124 11	
Pumping sewage	. 10,300 00	
Damage to automobile	. 117 75	
Sale of material Rent	39 56	
Rent	10 00	
	. 10 00	91.760.79
Water Service:		21,760 72
Rates, 1925	. \$38,385 72	
Prior years	3,710,189 56	
in jeurs	. 5,710,169 50	
	\$3,748,575 28	
Fees	6,087 18	
Off and on	558 00	
Service pipes and vencing	07 000 71	
Sale of materials	3,062 52	
Damage to hydrants	665 32	
Sale of materials	. 000 02	
Trotocatoning box	. 10 00	
Relocating hydrants Relocating pipes	600 00	
recounting pipes	. 365 64	
Establishing gate Elevator pipes installed Sale of gaselone	. 287 29	
Sala of markets	135 44	
Testing meters Sale of junk . Sale of merchandise Fire pipes installed Interest on bank deposit Labor and metarical	. 225 00	
Sale of Junk	3,768 60	
Sale of merchandise	. 93 00	
Fire pipes installed	59,927 94	
Interest on bank deposit .	. 1,273 25	
Labor and material	4,289 74	
Board of horses	367 50	
Labor and material  Board of horses  Abandoning pipe  Repairing pipes  Sale of auto accessories	. 237 77	
Repairing pipes	287 57	
	52 72	
Sale of lamp wick	80	
Repairs to fountains	77 94	
Water post changes Establishing hydrants Post hydrant rate	41 84	
Establishing hydrants	71 87	
Post hydrant rate	1 505 00	
Rebate on gasolono	1,585 80 8 00	
Furnishing water	. 800	
Drill returned	. 5 50	
Romoving by-	. 83 00	
Pipes delivered	. 125 00	
Workingman	. 376 76	
Rebate on gasolene Rebate on gasolene Furnishing water Drill returned Removing hydrants Pipes delivered Workingmen's compensation	. 69 00	
Total for Water Service		3,930,893 11
	-	
	<u>\$</u>	4,259,311 55

CONTRACTS MADE BY PUBLIC WORKS DEPARTMENT FROM FEBRUARY 1, 1924, TO JANUARY 31, 1925.

	illed reality.							
Awarded to	Double, Single, Trucka,  per per Day. Day.	Single, per Day.	Trucks, per Day.	Paving Service.	Sanitary Service.	Sewer Service.	Street Cleaning and Oiling Service.	Total.
<sup>1</sup> No. 1, South Boston and Dorchester North T. F. Meaney	\$6 95	84 55	1	\$23 00 \$10,660 14 \$4,496 66	\$4,496 66			\$15.156.80
1 No. 2, East Boston and Breed's Island E. J. McHugh & Son	2 00	4 48	23 00	1,088 00				1.088.00
E. J. McHugh & Son	6 73	4 75	23 00				500	
M. McGinnis & Co	6 40	4 00	23 00					-
<sup>1</sup> Nos. 6-9, Dorchester and Ashmont M. H. Loonie.	8 00	₩ 00	23 00			\$56 00		6,189 05
<sup>1</sup> No. 7, Roxbury South and Jamaica Plain M. Doyle & Co., Inc	5 89	4 00	23 00					25.029 97
No. 8, South End and Roxbury North Highland Contracting Company.		00 9	23 00		17,595 45		:	22,758 40
<sup>1</sup> No. 10, North and West Ends and Back Bay. B. E. Grant Company					27,968 47			29.135 88
T. H. Corrigan & Sons						:		00 009
E. J. McHugh & Son.  M. McGinnis & Co.  M. H. Loonie.  M. H. Doople & Co., Ine.  Highland Contracting Conpany.  B. E. Grant Company.  T. H. Corrigan & Sons.			8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 7 7 5 8 9 9 1 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 4.0	6 7.5 ± 4.75 23 00 1,085 00 1,	6 73 4 775 23 00 1,105 00 2,943 93	6 75 4 79 23 00 1,085 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

<sup>1</sup> Advertised and awarded to the lowest bidder.

# BRIDGE AND FERRY DIVISION (BRIDGE SERVICE). Bridge Work.

Gontract.	Awarded to	Dated.		Progress of Work.	Contract Estimated.	Amount Expended in 1924.
1 Repairing fenders of Dorchester Avenue Bridge, over Fort Point Channel, eity proper.	W. H. Ellis & Son Company	March 25, 1924.	1924.	Completed April 28, 1924	83,570 00	\$4,583 64
Furnishing labor required to repair flooring of Meridian Street Bridge.	Boston Elevated Railway Com-	May 19,	19, 1924.	Completed June 20, 1924	2,410 00	2,410 00
<sup>1</sup> Repairing fender piers and building pile supports of Northern Avenue Bridge.	W. S. Rendle & Son Company	June 23,	23, 1924.	Completed Nov. 14, 1924	17,805 00	18,270 43
<sup>1</sup> Repairing piers and fender guards of Summer Street Bridge, over Reserved Channel, South Boston.	W. H. Ellis & Son Company	July 18,	18, 1924.	Completed Oct. 2, 1924	9,273 00	8,019 55
Repairing and strengthening Commercial Point Bridge.	P. A. Colleran	July 18,	18, 1924.	Completed Sept. 17, 1924	1,874 00	2,194 40
Relocating eablehouses at Dartmouth Street Bridge,	Western Union Telegraph Com-		8, 1924.	Completed July 8, 1924	3,600 00	3,600 00
1Resetting draw track, Northern Avenue Bridge	E. J. Carnes Company	Aug. 21,	21, 1924.	Completed Nov. 6, 1924	6,450 00	6,987 93
<sup>2</sup> Repairing sidewalk and flooring of Dorehester Avenue Bridge, over Fort Point Channel.	C. & R. Construction Company	Aug.	28, 1924.	Completed Oct. 23, 1924	8,598 00	7,899 92
<sup>1</sup> Building two piers for Dartmouth Street Bridge, over Boston & Albany Railroad.	New England Foundation Company, Inc.	Sept. 5,	5, 1924.	Completed Jan. 9, 1925	16,480 00	23,114 64
<sup>1</sup> Repairing foundation piling, Chelsea Bridge North	William L. Miller Company	Sept. 27,	27, 1924.	Completed Oct. 29, 1924	1,508 60	2,800 76
<sup>1</sup> Repairing fenders of Chelsea Street Bridge	Rendle Stoddard Construction Company.	Oet. 4,	4, 1924.	Completed Jan. 3, 1925	4,124 00	4,668 53
1 Painting draw span of Chelsea Bridge North	Murray Engineering Company	Oet.	17, 1924.	Unfinished	2,500 00	2,337 50
<sup>1</sup> Repairing Huntington Avenue Bridge, over the Boston & Albany Railroad.	C. & R. Construction Company Oct.		31, 1924.	Unfinished	6,112 00	7,563 82
<sup>1</sup> Rebuilding Dartmouth Street Bridge, over the Boston & Albany Railroad.	C. & R. Construction Company	Dec.	4, 1924.	Unfinished	72,455 50	Nothing.
<sup>1</sup> Repairing draw fender pier of Chelsea Bridge North	William L. Miller Company		24, 1925.	Unfinished	1,495 00	Nothing.

<sup>2</sup> Advertised and awarded to the second lowest bidder.

<sup>1</sup> Advertised and awarded to the lowest bidder.
<sup>3</sup> Only bid; unadvertised.

# DRIDGE AND PERKI DIVISION (PERMI SERVICE).

## Ferry Work.

Contract.	Awarded to	Д	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1924.
Teamine coal to ferryboats	Delia Carter	Feb.	1, 1924.	Completed Dec. 31, 1924	* \$0 .275	\$2,689 47
•Weighing and vending machines in ferryhouses	Auto Sales Corporation	Feb.	1, 1924.	Completed Dec. 31, 1924	4 400 00	
Repairs to middle pier, South Ferry.	Rendle-Stoddard Construction Company.	May	27, 1924.	Completed June 15, 1924	1,500 00	1,500 00
<ul> <li>Repairs and alterations to South Pier, South Ferry, East Boston.</li> </ul>	W. H. Ellis & Son Company	May	27, 1924.	Completed July 10, 1924	1,500 00	1,500 00
Repairing ferry piets.	Rendle-Stoddard Construction Company.	June	18, 1924.	Completed July 26, 1924	4,667 50	4,441 45
<sup>1</sup> Rebuilding middle pier at the Boston landing of the South Ferry.	Rendle-Stoddard Construction Company.	July	8, 1924.	Completed Dec. 1, 1924	13,057 50	32,656 13
Foundations for ferry bridges for the South Ferry	Rendle-Stoddard Construction Company.	July	29, 1924.	Completed Dec. 2, 1924	17,780 00	30,856 98
1 Two electricully operated ferry bridges with gallows, frames and accompanying machinery,	J. Edward Ogden Company	Aug.	5, 1924.	Unfinished	234,000 00	87,516 00
<sup>1</sup> Repairing piers at the North Ferry	W. H. Ellis & Sor Company	Aug.	7, 1924.	Completed Jan. 31, 1925	17,820 00	17,544 00
* Repairing north drop, North Ferry	M. H. Ellis & Son Company	Aug.	11, 1924.	Completed Aug. 11, 1924	1,000 00	1,000 00
• Repairing woodwork, iron work, etc., North Ferry	Murray Engineering Company	Aug.	11, 1924.	Completed Aug. 11, 1924	8,163 76	3,000 00
• Repairs on ferryboat "Noddle Island"	R. T. Green Company	Sept.	26, 1924.	Completed Oct. 10, 1924	1,574 00	1,574 00
• Repairs to pontoon, North Ferry.	Murray Engineering Company	Oct.	2, 1924.	Completed Oct. 4, 1924	2,875 00	2,875 00
Repairing hull of ferryboat "John H. Sullivan"	R. T. Green Company	Oct.	17, 1924.	Completed Oct. 29, 1924	4,755 00	5,683 46
1 Repairing wharf at coal pocket, South Ferry, East Boston.	W. H. Ellis & Son Company	Oct.	28, 1924.	Completed Jan. 6, 1925	1,142 20	1,237 23
Repairing bull of ferryboat "Lieutenant Flaherty"	The Atlantic Works	Nov.	10, 1924.	Completed Nov. 20, 1924	2,208 00	2,159 55
Repairing hull of ferryboat "Ralph J. Paumbo"	The Atlantic Works	Dec.	11, 1924.	Completed Dec. 3, 1924	6,209 00	4,887 81
Apairing face of ferry drop, North Ferry	Murray Engineering Company	Dec.	6, 1924.	Completed Jan. 20, 1925	2,500 00	2,500 00
<sup>2</sup> Furnishing and installing ventilating system on ferry-boat. "Noddle 1sland."	The Atlantic Works	ş.	5, 1924.	Completed Oct. 28, 1924	2,926 00	2,926 00
1 A 1 and a concept of the former bidden			Avortion on	Adventised and amongs to the account leavest hidden	+ hiddor	

PUBLIC WORKS DEPARTMENT.

<sup>1</sup> Advertised and awarded to the lowest bidder.

<sup>3</sup> Advertised and awarded to the only bidder.

\*Advertised and awarded to the second lowest bidder. \*Only bid; unadvertised. \* Per ton.

HIGHWAY DIVISION — LIGHTING SERVICE. Contract in Force Made in Previous Years.

Amount Expended in 1924.	, 1924 <b>\$31,972 65</b>
Progress of Work.	Completed Mch. 31,
Dated.	Mch. 19, 1914.
Awarded to	Boston Consolidated Gas Company
CONTRACT.	Furnishing gas and for equipment and lighting of gas loungs. Boston Consolidated Gas Company Meb. 19, 1914. Completed Mcb. 31, 1924 \$31,972 65 for a period of ten years, from April 1, 1914, to March 31.

' Advertised and awarded to only bidder.

LIGHTING SERVICE.

Amount Expended.	\$11 00   \$3,388 70	11 00 60,779 35	11 00   143,565 99
Price per Gas Lamp per Year.		11 00	11 00
Progress of Work.	Completed June 30, 1924	Completed June 30, 1924	Unfinished
Dated.	May 14, 1924.	May 14, 1924.	May 20, 1924.
Awarded to	Charlestown Gas and Electric Company.	Boston Consolidated Gas Company.	Boston Consolidated Gas Company.
CONTRUT	Furnishing illuminating gas in the Charlestown district Charlestown Gas and Electric May 14, 1924. Completed June 30, 1924	Furnishing illuminating gas in the City of Boston, ex-Boston Consolidated Gas May 14, 1924. Completed June 30, 1924  Company.  Company.	Furnishing gas and for the equipment and lighting of Boston Consolidated Gas May 20, 1924. Unfinished, gas lamps for a period of ten years, from April 1, 1924. Company.

:Only bidder; not advertised.

### Miscellaneous.

Сомтилст.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1924.
<sup>3</sup> Removing six trees and six roots in Morton street at Selwyn street, Dorchester.	M. F. Gaddis.	Feb. 6, 1924.	Completed Feb. 15, 1924	\$925 00	\$925 00
Repairing bituninous pavement in any street upon which the maintenance guaranty has expired.	Central Construction Company	Mch. 12, 1924.	Completed Jan. 31, 1925	82,200 00	94,061 51
<sup>1</sup> Laying bitulithic pavement and building sewcrage works in Shawmut avenue, from Warrenton street to Roxbury street, city proper and Roxbury.	M. F. Gaddis	April 26, 1924.	Completed July 22, 1924	205,317 45	237,463 87
Filling, building sewerage works and laying water pipes in Ashley street, from Breed street to Boardman street, East Boston.	A. Baruffaldi Company	June 23, 1924.	Unûnished	26,969 60	30,840 59
Grading Harrishof street, from Warren street to Humbold avenue, Roxbury, and Winton street, from Beech street about 640 feet southwesterly, West Roxbury.	J. C. Coleman & Sons Company.	Sept. 27, 1924.	Completed Nov. 5, 1924	4.254 00	5,433 90
<sup>1</sup> Removing walls and for filling in Cambridge and Court streets, from Charles street to Brattle street, city proper.	Coleman Brothers, Inc	Nov. 10, 1924.	Unfinished	15,370 00	1,384 65
<sup>3</sup> Furnishing electric lights, etc., of Municipal Garage on Albany street.	M. B. Foster Electric Company.	Oct. 8, 1924.	Completed Oct. 8, 1924	348 00	348 00
*Waterproofing brick and wall surfaces of Municipal Garage, Albany street.	Hampden Paint and Chemical Company.	Sept. 19, 1924.	Completed Sept. 19, 1924	00 286	00 286
Furnishing and installing ware grille stock room, etc., P. J. Dinn & Co in the Municipal Garage, Albany street.	P. J. Dinn & Co	Sept. 11, 1924.	Completed Sept. 14, 1924	3,603 00	3,603 00
Furnishing electric door operator in the Municipal Garage, Albany street.	Reversible Motor Drive Company.	Sept. 12, 1924.	Completed Sept. 12, 1924	1,350 00	1,350 00
Building gas pipe fence on casterly side of Everett street, southerly approach to bridge over Boston & Albany Railroad, Brighton.	P. J. Dinn & Co	Sept. 5, 1924.	Completed Nov. 25, 1924	1,145 00	1,145 00
<sup>1</sup> Advertised and awarded to the lowest bidder.	2 Advertised and awarded to the second lowest bidder	d to the second lo		3 Only bid; unadvertised	sed.

Removing Snow and Ice.

District.	Contractor.	Dated.	Progress of Work.	Price Per Amount Cubic Expended Yard. in 1924.	Amount Expended in 1924.
District No. 1	Boston Contracting Company, Inc Dec. 11, 1924. Unfinished.	Dec. 11, 1924.	Unfinished	\$0.49	\$0 49 \$1,399 93
District No. 2	Coleman Brothers, Inc.	Dec. 19, 1924. Unfinished.	Unfinished	65	65 4,164 88
District No. 3	B. E. Grant Company.	Dec. 11, 1924.	Unfinished	20	2,523 00
District No. 4	J. F. Kennedy Company, Inc	Dec. 13, 1924. Unfinished.	Unfinished	67	2,101 46
District No. 5.	J. P. McCabe.	Dec. 11, 1924.	Unfinished	65	1,223 63
District No. 6	A. G. Tomasello & Son, Inc.	Dec. 19, 1924. Unfinished.	Unfinished	70	2,423 90
District No. 7	M. F. Gaddis.	Dec. 13, 1924. Unfinished	Unfinished	63	2,607 89
District No. 8	Beatty Construction Company	Dec. 13, 1924.	Unfinished	56	1,340 92
District No. 9.	Standard Contracting Company.	Dec. 11, 1924. Unfinished	Unfinished	89	1,292 68
District No. 10.	J. J. McCarthy & Co	Dec. 11, 1924. Unfinished.	Unfinished	59	1,834 60

SANITARY SERVICE.
Miscellaneous.

	horse per year	40hly bid; unadvertised.  Advertised and awarded to the highest bidder.  * Paid to the eity. † Per day. † Per horse per year.	*Only bid; unadvertised Advertised and awarde		Advertised and awarded to the lowest bidder.     Advertised and awarded to the second lowest bidder.     Advertised and awarded to the second lowest bidder.     Advertised and awarded to the only bidder.
18,708 59	20,806 75 18,708	May 28, 1924. Completed Aug. 16, 1924	May 28, 1924.	J. Williams & Co	Building sewer works and water works in Harrishof st., from Warren street to Humboldt avenue, Roxbury.
	41,840 00	Unfinished	Jan. 20, 1925.	Westinghouse Electric and Man-Jan. 20, 1925. Unfinished	Electrical equipment for No. 1 and No. 2 pumping units. Calf Pasture pumping station.
25,000 00	125,000 00 25,000 00	Unfinished	Nov. 18, 1924. Unfinished.	Edison Electric Illuminating Company.	High tension electric service at the Calf Pasture pumping station, Dorchester.
1,400 00 1,464 98	1,400 00	Aug. 26, 1924.   Completed Sept. 13, 1924	Aug. 26, 1924.	King and Kingsley	Wooden screen on Dorehester brook outlet
4,896 00	4,896 00	Completed Oct. 31, 1924	June 14, 1924.	American Car Sprinkler Com- June 14, 1924. Completed Oct. 31, 1924 pany.	Furmshing and operating electric sprinkler car for flushing streets.
970 00	00 026	Completed April 2, 1924	April 22, 1924.	11. A. Smith	• Repairing roof of stable, City Yard, Albany street
‡32 00	132 00	April 14, 1924. Completed Oct. 31, 1924	April 14, 1924.	B. E. Grant Company	Furnishing combination motor street sprinkling and B. E. Grant Company flushing trucks.
929 47	1,015 50	Completed Aug. 28, 1924	Meh. 31, 1924.	J. A. Singarella.	Repairs to city stable, Highland street, Roxbury
7 51	*7 51	Feb. 1, 1924. Completed Jan. 31, 1925	Feb. 1, 1924.	J. A. Kelley.	Removing manure from the stables and yards in the various divisions of the department
\$18,374 86	\$18,810 00 \$18,374 86	Completed Aug. 4, 1924	June 23, 1924.	J. J. McCarthy & Co	<sup>2</sup> Laying Porland cement, concrete pavement and build- J. J. McCartby & Co. ing sweringe works in South Sanitary Yard, Albany street, eity proper.
Amount Expended in 1924.	Contract Estimated.	Progress of Work.	Dated.	Awarded to	Contract.

Collecting and Removing Ashes, Store Dirt, House Dirt, Refuse and Garbage. SEWER AND SANITARY DIVISION — SANITARY SERVICE.

December				91.10	Amount
DISTRICT	Awarded to	Dated.	Progress of Work.	Sid Fer Month.	Month. Expended in 1924.
*! Last Boston	E. J. MeHugh & Son	Feb. 1, 1924	Feb. 1, 1924. Completed Jan. 31, 1925	\$4,732 00	\$4,732 00 \$56,784 00
<sup>3</sup> Brighton	P. F. Donovan	Feb. 13, 1924	Feb. 13, 1924. Completed Jan. 31, 1925	6,425 00	6,425 00 77,100 00
* West Roxbury.	J. J. Moore	Feb. 1, 1924	1, 1924. Completed Jan. 31, 1925 2,500 00 30,000 00	2,500 00	30,000 00
<sup>2</sup> Dorehester	J. C. Coleman & Sons Com- Feb.		1, 1924. Completed Jan. 31, 1925 16,100 00 193,200 00	16,100 00	193,200 00
Hyde Park.	T. E. Bryan Feb. 1. 1924. Completed Jan. 31, 1925	Feb. 1, 1924	Completed Jan. 31, 1925	925 00	925 00 11,100 00
1 Advertised and awarded to the lowest hidder.	2 Advertised and awarded to the second lowest bidder 3 Advertised and awarded to the third lower hidder	nd lowest bidder	3 Advertised and awarded to	the third los	ant hidder

## Contract in Force made in Previous Years.

Amount Expended in 1924.	\$345,000 00 \$345,000 00
Bid Per Year.	\$345,000 00
Progress of Work.	Unfinished
Dated.	Dec. 31, 1921.
Awarded to	Coleman Brothers, Inc
CONTRACT.	Dec. 31, 1921. Unfinished

Advertised and awarded to the lowest bidder.

WATER DIVISION --- WATER SERVICE.

## Laying and Relaying Water Pipes.

	Amount Expended in 1924.	\$8,499 90	6,625 78	7,443 65	6,092 62
	Contract Estimated.	\$8,703 00	6,657 50	6,865 00	5,531 50
	Progress of Work.	Completed May. 22, 1924	Mar. 31, 1924.   Completed June 27, 1924	Completed July 31, 1924	Completed Aug. 23, 1924
	Dated.	Mar. 31, 1924.	Mar. 31, 1924.	April 26, 1924.	May 23, 1924,
The state of the s	Awarded to	J. Williams & Co.	M. DeSisto Company	J. A. Costello & Co	A. Grande.
	Сомтамст.	1 Congress street, from Franklin street to Atlantic avenue.  South street, from Tutte street to Atlantic avenue.  Kneeland street, from Tutte street to Atlantic avenue, eity proper. Burnham street, from Southampton atteet to South Bay avenue. Anone street, from Southampton atteet to South Bay avenue. Southampton atteet to South Bay avenue. Southampton atteet to South Bay avenue, at Moore street, Roybury: Burgoyne street, from Beaumont street to Helean road, Dorrhesetteet, Troynee street, from Bombeld street to School street, and Province court, from Province street, city proper.	1Blue Hill avenue, Haaleton street, Hiawatha road, Mor- M. DeSisto Company fon street. Wildwood starter, Dordneserr Horence avenue, Englinor, Tartrige street, Tond View avenue, Walder road, Peer Roxbury, Parkway, Woodber, Woodber, Weed, Weed, Weed, Roxbury.	Arthur street, Charles River Reservation and Hichborn Street, Brighton: Beech street. Cornell street. Grand- view atreet, Granville street and Winton street, West Roxbury.	Becket street, from Van Winkle street to Codman street: Nowell street, from Carmen street to Vassar street Fairview street, from Latmen street, Dividenter, Balayaster street, from Latilian street to Naneis street, Basyaster street, from Latilian street to Naneis street, Basyaster street, from Latilian street to Naneis street, Base Boston; Randolph street, from Harrison avenue, ter street, South Boston; and Leverett street, from Green street to Cotting street, city proper.

	10	-	CBLIC	. wo	cani v	0	EPAR	o	C)	<i>20</i>
	16,279 95	1,355 37	5,457 90	3,380 9	5,605 66	2,999 10	2,937 3	5,867 18	4,097 12	- m
	16,912 50	1,219 00	5,416 00	3,220 00	5,360 00	2,680 00	3,094 50	5,951 75	4,327 50	owest bidders
	t. 25, 1924	ле 19, 1924	ot. 19, 1924	g. 20, 1924	t. 25, 1924	ot. 17, 1924	t. 3, 1924	w. 12, 1924	t. 25, 1924	ne third bidder ne of the two l
	Completed Oct. 25, 1924	Completed June 19, 1924	June 23, 1924. Completed Sept. 19, 1924	Completed Aug. 20, 1924	Aug. 11, 1924.   Completed Oct. 25, 1924	Completed Sept. 17, 1924	Completed Oct.	Completed Nov. 12, 1921	Completed Oct. 25, 1924	Advertised and awarded to the third bidder.
	lay 31, 1924.	June 14, 1924.	me 23, 1924.	July 2, 1924.	ug. 11, 1924.	Aug. 19, 1924.	Sept. 5, 1924.	Sept. 5, 1924.	Sept. 11, 1924.	Advertised an
	DeCristofaro & Brothers Company.	J. Guarino & Co	M. DeSisto Company	C. Russo	A. Grande	J. T. Shea, Jr	J. Williams & Co	M. DeSisto Company	A. Cefalo	r. st bidder.
Farkway and Willow street, West Roxbury: Lane park, Orchard road and Penniman road, Brighton.	1 Cleveland eirele, Sutherland road, Commonwealth avenue, Colonial road, Brighton.	Old Colony Parkway, from Tolman street to Conley street, Dorchester.	Branch street, Mickays street, Dorchester: Atlantic Breet, Clintch stret, Coodway versal Moody street, Perpoint read, Well street, West Robbury; Jarrel, Street, Pert street, Perthishire road and Redford road, Brighton,	<sup>1</sup> Bismarek street, Germania street, La Grange street, West Roxbury; Ruskin road, Hyde Park; and Wabash street, Dorchester.	Claymoss road, Euston road, Ransom road, Brighton; Hollingsworth street, Dorehester; and Stratford street, West Roxbury.	<sup>3</sup> Poydras street and Tehapitoulas street, Hyde Park	<sup>1</sup> Bonad road, Hillside avenue, Marion avenue, Metropolitan avenue, Parkton road, Roberts avenue and Russett road, West Roxbury.	Pilgrim read, from Brookline avenue to Longwood avenue to Armene Pilymonth steet, from Degmeyood avenue to Riverway; Riverway, from Pilymonth street to Short River, from Pilymonth street to Short steet, from Fillen mod to Riverway; Roxbury; Onedas street, from Harrison avenue was Almar street of Woodworth street, from Mant street to Woodworth street; Almar street to Mondworth street; Almar street in Top street; and Alyzteloanik street, from Millon street, Dordrester.	West Roxbury Parkway (West Border road), from La Grange street to Pleasure drive, West Roxbury.	<sup>1</sup> Advertised and awarded to the lowest bidder. <sup>2</sup> Advertised and awarded to the second lowest bidder.

Laying and Relaying Water Pipes. -- Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1924.
*Cunningham street, from Hartford street to Woodeliff J. Guarino & Co street, Dorchester.	J. Guarino & Co	Sept. 30, 1924.	Completed Oct. 4, 1924	8900 00	\$846 50
: Central avenue, Greenwood avenue, Metropolinu ave- Vozzelia & Capone nue, Thatcher street and Westminster street, Hyde Park,	Vozzella & Capone	Oct. 17, 1924.	Oct. 17, 1924. Completed Dec. 3, 1924	5,840 50	5,027 45
<sup>5</sup> Humphreys street, from Groom street to Dudley street,	V. Barletta	Nov. 10, 1924.	Completed Nov. 15, 1924	3,500 00	4,295 52
Reed street, from Humenan street to Thorndike street; Whiting street from Warren steet to Moreland street. Montrose street, from Warren street to Moreland street. Montrose street, from Warren street to Cliff street, Rozbury.	J. Williams & Co	Nov. 10, 1924.	Unfinished	3,403 00	399 66
Fernald terrace, Dorchester	DeCristofaro & Brothers Com- Nov. 20, 1924. Completed Dec. 30, 1924 pany.	Nov. 20, 1924.	Completed Dec. 30, 1924	1,983 25	1,948 30
<sup>1</sup> Billings lane, Maynard street, Schirmer road, West Roxbury; Elizabeth avenue, Goodenough street, Brighton; and Friendship road, Hyde Park.	A. Grande	Nov. 24, 1924.	Completed Jan. 5, 1925	4,139 50	3,876 78
Church street, Greaton road, Russett road, Theodore Parker road, West Roxbury; Duzbury road, Dor- chester; and Glencoe street, Brighton.	DeCristofaro & Brothers Com- Dec. 11, 1924.	Dec. 11, 1924.	Unfinished	3,875 50	80 298
<sup>2</sup> Burley street, Dale street and Maynard street, West Roxbury.	L. Balboni Dec. 19, 1924. Completed Dec. 30, 1924	Dec. 19, 1924.	Completed Dee. 30, 1924	1,573 75	950 31
1 Advertised and awarded to the lowest bidder. 2 Advertised and awarded to the second lowest bidder. 3 Advertised and awarded to the third lowest bidder.	owest bidder. ond lowest bidder. ird lowest bidder.	Advertised and awarder Only bid; unadvertised	Advertised and awarded to one of the two lowest bidders.	west bidders.	

Miscellaneous.

d.	<sup>3</sup> Only bid; unadvertised		warded to the onl	2 Advertised and awarded to the only bidder.	<sup>1</sup> Advertised and awarded to the lowest bidder
210 00	710 00	Completed Dec. 8, 1924	Dec. 4, 1924.	С. & R. Construction Company.	<sup>4</sup> Building water pipe platform and blocking 12-inch water pipe on Blakemore street bridge, Mt. Hope District West Roxbury
3,821 81	5,995 00	Unfinished	Sept. 27, 1924.	Payne Dean Ltd	Purnishing and installing electric valve operating equipment on 36-inch valves at Copier square. Beacon street and Comnonwealth avenue, and Huntington avenue, at South Huntington avenue.
2,648 40	2,750 00	Aug. 9, 1924.   Completed Aug. 15, 1924	Аид. 9, 1924.	M. F. Gaddis	<sup>3</sup> Repaying over trench with granite block pavement on Columbus avenue over New York New Haven and Hartford Railroad Bridge, Boston.
20,014 89	19,365 00	Completed Oct. 18, 1924	Aug. 5, 1924.	National Water Main Cleaning Aug. 5, 1924. Completed Oct. 18, 1924 Company, Inc.	<sup>1</sup> Cleaning water pipes in Roxbury and Brighton
12,483 47	13,350 00 12,483 47	Unfinished	July 2, 1924.	McCulloch Manufacturing Co- July 2, 1924. Unfinished	*Assembling 200 6-inch gate valves; 200 S-inch gate valves; 50 10-inch gate valves; and 200 12-inch gate valves.
\$8,195 22	\$4,950 00	April 5, 1924. Completed Nov. 13, 1924.	April 5, 1924.	J. J. McCarthy & Co	<sup>1</sup> Repairing artificial stone sidewalk blocks for Water J. J. McCarthy & Co., Service.
Amount Expended in 1924.	Contract Estimated.	Progress of Work.	Dated.	Awarded to	Сомтваст.

High Pressure Fire Service.

Amount Expended in 1924.	8170,746 67
Estimated Cost.	\$216,472 50
Progress of Work.	Unfinished
Dated.	April 8, 1924.
Awarded to	C. & B. Construction Com-
Contract.	I livaking street, from Sudbury street to Chardon street; Bawker street, from Sudbury street to Chardon street; Chardon street, from Green street to Parliand street; Chardon street; Gardon Green street to Parliand street. Athenic avenue, Tom Kneeland street to East street; South street, from Kneeland street to Essex street; Commere es treet; Commere es treet, Tom Merchants row to Commercial street; Commere street, From Surech, from Archants avenue; Mik street, from Momerela street to Atlantic avenue; Mik street, from Mils street to Atlantic avenue; Mik street, from Mils street to State street; Dones street, from Mils street to State street; Dones street, from Mils street to State street, from Street, from Mils street to State street, from Milst street to Wilst street to Milst street to Milst street to Milst street to Hanove street, from Milst street to Hanove street, from Milst street to Hanove street, from Hanove street, from Hanove street, from India street to Broad street, from Hanove street, from India street to Broad street; Restreet, from Even street, from India street to Read street, Restreet, from Even street, from Hanove street, from Hanove street, from Hanove street, from Hanove street to Hanove street from Froet street from F

'Advertised and awarded to the lowest bidder.

Area of Pavements.

Area in Square Yards and Character of Pavements on Accepted Streets, February 1, 1925.

District.	Sheet Aphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges.	Brick.	Concrete.	Concrete. Macadam. Gravel.	Gravel.	Not Graded.	Totals.
Year 1923 report	898,238	1,002,076	2,721,651	290,963	31,360	88,699	47,926	5,926,385	462,929	86,991	11,557,218
Per cent	77.77	S 67	23.55	2.52	0.27	0.77	0.41	51.28	4.01	0.75	100.00
February 1, 1925.											
City Proper	361,645	248,369	891,496	194,670	6,492	13,415	3,404	298,387	2,130	16,217	2,036,225
Charlestown	6,609	414	278,998	2,622	2,112	736	673	152,095	719	55	115,054
East Boston	49,648	24,705	141,315	187	1,609	122		156,871	6,881	298	682,852
South Boston	31,441	42,044	427,272	13,462	5,599	3,081		384,012	12,987	40,103	960,001
Roxbury	170,880	125,818	399,370	25,242	1,417	44,814	14,606	854,233	23,846	945	1,661,171
West Roxbury	93,954	272,118	171,944	372	1,468		24,453	1,131,239	69,127	22,503	1,787,178
Dorehester	91,026	225,916	279,811	41,951	5,124	25,461	13,333	1,619,180	99,103	9,056	2,412,961
Brighton	96,463	173,784	107,826	4,715	2,560	17	38,509	555,377	48,756	618,01	1,038,826
Hyde Park	14	32,381	12,672	1,683	3,368			338,031	215,204	9,567	612,920
Totals	* 901,680	11,145,549	‡ 2,710,704	287,904	29,749	88,315	\$ 94,977	\$5,789,425	478,733	110,132	11,637,188
Per cent	7.75	<del>8</del> 6	23.29	2.47	0.26	92.0	0.82	49.75	4.11	0.95	100.00

Note.—In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Ter-

ritory amoved from Brockhine is included in eity proper.

\*\*Chi fish amount 470 equate yards is Unionite, and 114 square yards is rubber.

†\*\*Chi fish amount 470 equate yards is Unionite, and 114 square yards is submit the book 704,804 square yards is submit 400 equate yards is 1000 equate yards is a spall concrete.

†\*\*Chi is amount 440 equate yards is 1000 equate yards is a graph concrete hose.

†\*\*Chi is amount 440 equate yards is 180 eme Granitoid Concrete blocked paveneut, 836 equate yards is 80 eme Granitoid Concrete blocked paveneut, 836 equate yards is 80 eme Granitoid Concrete blocked paveneut, 836 equate yards is 80 eme Granitoid Concrete blocked paveneut, 836 equate yards is 80 emedian which is blocked paveneut.

33.50.5 equate yards public allow included in this table.

299,732 square yards public streets in charge of Park Department included in this table.
71,341 square yards public streets in charge of Commonwealth of Massachusetts included in this table.

In addition to this table there are 6,891 square yards of accepted footways.

Length of Pavements.

Length in Miles and Character of Pavements on Accepted Streets, February 1, 1925.

District	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges	Brick.	Concrete.	Macadam. Gravel.	Gravel.	Not Graded.	Totals.
Year 1923 report	51.69	49.70	105.12	12 21	1 #1	4 23	3.05	351.25	30.10	2.79	611.58
Per cent	3.5	S 13	17.19	2.00	0.23	69.0	0.50	57.43	4.92	0.46	100.00
February 1, 1925.											
City Proper	21.17	10 90	FF. 45	8.05	0.27	0.63	0.55	17.28	0.30	0.01	96.55
Charlestown.	0 41	0.03	12.13	0 11	0	0.03	0 63	10.56	20 0		23.45
East Boston	2.17	06.0	16.51	0.01	01.10	0 04	:	22.51	0.35	0.04	32.63
South Boston.	2.51	2.06	17.76	0.78	0.25	0 13		20.45	89.0	1.46	46.08
Roxbury	89 6	6.73	14.74	1.12	0.05	2 31	99.0	54.20	1.76	0.05	91.30
West Roxbury	6.30	13.91	3.73	0.01	20.0		1.62	73.31	4.43	0.24	103.61
Dorehester	5.61	10.42	10.72	1.83	01.19	1 08	0.73	99 57	6.38	0.16	136.70
Brighton	3.77	8.35	0.92	0.11	0.15	:	2.11	30.74	3.29	0.34	49.78
Hyde Park		1.44	20.0	0.10	0.19			19.01	14.20	0.24	35.25
Totals	* 51.62	+ 54.74	‡ 103.99	12.09	1.35	4.23	\$ 5.70	1 347 63	31.46	2.54	615.35
Per cent	8.39	8.90	16.90	1.96	0 25	0.69	0.93	56.49	5.11	0.41	100.00

Territory \*Of this amount 0.02 mile is unionite and 0.00 mile is rubber.

† Of this amount 0.02 mile is asphalt block, 32.43 miles is bitulithic, 0.00 mile is Endurite, 0.06 mile is Filbertine, 1.18 mile is Smasco, 14.96 miles is Topeka. Note.—In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. annexed from Brookline is included in city proper.

10.15 is apparate to the trible is cobble and 46.51 miles is granite block paving on concrete base.

10.15 of this monute 0.06 mile is bronc Granitod concrete blocked pavement and 0.04 mile is Soilamics.

10.15 miles between 126.86 miles is bituminous maceadam.

12.25 miles public saleys included in this table.

12.25 miles public streets in charge of Park Department included in this table.

12.25 miles public streets in charge of Commonwealth of Massechuserts included in this table.

10.15 miles public streets in charge of Commonwealth of Massechuserts included in this table.

10.15 miles public streets in charge of Commonwealth of Massechuserts included in this table.

10.15 miles proper streets in charge of Commonwealth of Massechuserts included in this table. miles is asphalt concrete. 6.09

The following changes in pavement were made during the year.

0.10 mile or 1,532 square yards sheet asphalt changed to bitulithic.
0.00 mile or 25 square yards sheet asphalt changed to granite block.
0.00 mile or 15 square yards sheet asphalt changed to concrete.
0.00 mile or 3 square yards asphalt block changed to bitulithic.
0.00 mile or 5 square yards asphalt concrete changed to sheet asphalt.
0.00 mile or 18 square yards asphalt concrete changed to bitulithic.
0.00 mile or 51 square yards asphalt concrete changed to concrete.
0.00 mile or 145 square yards bitulithic changed to sheet asphalt.
0.02 mile or 352 square yards Topeka changed to sheet asphalt.
0.03 mile or 715 square yards Topeka changed to bitulithic.
0.00 mile or 183 square yards Topeka changed to granite block.
0.02 mile or 3.116 square yards granite block changed to sheet asphalt.
0.00 mile or 114 square yards granite block changed to rubber.
1.60 miles or 38,882 square yards granite block changed to bitulithic.
0.11 mile or 3,013 square yards granite block changed to wood block.
0.00 mile or 22 square yards granite block changed to brick.
0.00 mile or 94 square yards granite block changed to concrete.
0.00 mile or 233 square yards granite block changed to macadam.
0.05 mile or 1,076 square yards wood block changed to sheet asphalt.
0.00 mile or 34 square yards wood block changed to bitulithic.
0.22 mile or 6,005 square yards wood block changed to granite block.
0.01 mile or 300 square yards plank on bridges changed to granite block.
0.03 mile or 459 square yards plank on bridges changed to wood block.
0.02 mile or 345 square yards plank on bridges changed to concrete.
0.03 mile or 500 square yards plank on bridges changed to macadam.
0.00 mile or 184 yards brick changed to sheet asphalt.
0.00 mile or 222 square yards brick changed to granite block.
1.62 miles or 27,226 square yards macadam changed to sheet asphalt.
1.29 miles or 61,814 square yards macadam changed to bitulithic.
0.16 mile or 14,507 square yards macadam changed to granite block.
0.52 mile or 12,430 square yards macadam changed to concrete.
0.11 mile or 2,052 square yards gravel changed to sheet asphalt.
0.35 mile or 10.878 square yards gravel changed to bitulithic.
0.17 mile or 3,718 square yards gravel changed to granite block.
2.01 miles or 32,442 square yards gravel changed to concrete.
0.05 mile or 570 square yards gravel changed to macadam.
0.00 mile or 136 square yards not graded changed to sheet asphalt.
0.00 mile or 703 square yards not graded changed to granite block.
0.00 mile or 38 square yards not graded changed to wood block.
0.10 mile or 1,424 square yards not graded changed to concrete.
0.00 mile or 21 square yards not graded changed to macadam.
0.40 mile or 7,245 square vards not graded changed to gravel.

### Employees.

The following tables show the number of requisitions made on the Civil Service Commission for men; the number appointed, reinstated, died, resigned, transferred and retired; also the grade and number of employees in the department:

Requisitions made or	n the Ci	vil S	Service	C	ommi	ssion	42
Number of men calle	ed .						109
Number of men certi	ified						232

Number of men appointe	$_{ m ed}$						164
Provisional appointment	s ma	de p	erma	nent			7
Promotions allowed .							37
Reinstatements allowed							*22
Number of men resigned							$^{26}$
Number of men died							41
Number retired under th	e Vet	terar	ıs' Re	etirer	nent	Act	4
Number retired under the	e Bos	ston	Reti	reme:	$\operatorname{nt} \mathbf{A}$	$^{ m ct}$	91
Number of transfers to o	ther	depa	artme	ents			14
Number of transfers from	n oth	ier d	epart	tmen	$^{\mathrm{ts}}$		42

The records of the department show that there are now 3,095 persons eligible for employment in the several divisions and of that number 3,016 were upon the January, 1925, pay rolls.

### Grade and Number of Employees.

					SER	VICES				
Title.	Central Office.	Paving.	Sewer.	Sanitary	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
Commissioner	1									1
Division engineers		1	1				1		1	4
Engineers in charge		1	1						1	3
Chief clerk	1									1
Clerks	39	19	6	3	1	1	2	1	39	111
Assistant engineers (civil)		12	19				9		5	45
Draughtsmen		5	10				5		3	23
Instrumentmen		13	23				6		7	49
Rodmen		5	10				1			16
Inspectors		37	40	47	40		3	1	32	200
${\bf Foremen}$		10	3	8	10		1		12	44
Subforemen		24	3				3			30
Blacksmiths and assistants		8	1	17					3	29
Blueprinters	3									3
Chauffeurs	1	3	5	10	8		4		14	45
Carpenters and assistants		21	4	3		5	14		5	52
Chief inspectors		1			1					2
Carried forward	45	160	126	88	60	6	49	2	122	658

<sup>\*</sup> Seventeen on eligible list February 1, 1924.

### Grade and Number of Employees.— Continued.

					SERV	ICES.				
	-	ī								
Title.	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
Brought forward	45	160	126	88	60	6	49	2	122	658
Cement testers and assistants	3									3
Chemist and assistant		2								2
Coal passers			7							7
Cashiers		1				1				2
Constable and inspector		1		3					4	8
Drawtenders and assistants							130			130
Deckhands						26				26
Engineers (steam)		11	6			12			1	30
Electricians			2			1	1			4
Feeders		1		6	3					10
Firemen		3	12			26			1	42
Gatemen			4			15				19
General foreman		1	1	1	1	1			2	7
Harnessmakers and assistants				8						8
Head chauffeurs		4								4
Horseshoers				9						9
Janitors						1	1			2
Janitresses						7				7
Joiners						2				2
Laborers		320	83		140	11	3		184	741
Lamplighter						1				1
Machinist and assistants			5			2	1		21	29
Meter testers								<b>.</b> .	8	8
Meter readers									33	33
Masons (stone and brick)			9						2	11
Medical inspectors		1		1	1					3
Oilers			17			18				35
Pipe fitter and assistant						2				2
Pavers		87	1						3	91
Plumbers				1					20	21
Painters		3	1	8		3	3			18
Captains	.					12				12
Carried forward	48	595	274	125	205	147	188		401	1,985

### Grade and Number of Employees .- Concluded.

					SER	VICES	3.			
TITLE.	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
Brought forward	48	555	274	125	205	147	188	2	401	1,985
Quartermasters						12				12
Repairers		3	1						94	98
Roofer						1				1
Rammers		10			ļ					10
Rigger						1				1
Sealers									3	:3
Sewer flushers			23							23
Supervisors		2		1			1			4
Stenographers		1	2					1		4
Stoneeutters		10	2							12
Superintendents and deputy		1	1						2	4
Stockkeepers				1		1			1	3
Stablemen		13	3	29	30		1		1	77
Tankman						1				1
Teamsters and heplers		57	4	45	226				12	750
Telephone operators					1				1	2
Tollmen						12				12
Chief veterinarian		1								1
Watchmen		6	16	12	3		4		6	47
Weighers		1		1						2
Wharfingers		1		2						3
Wharfmen	}			4						4
Wheelwrights and assistants				5						5
Yardmen		7	2	13	2				7	31
Totals	48	708	328	644	467	175	194	3	528	3,095

### Number of Employees Actually Employed February 1, 1924, and February 1, 1925.

	Central Office.	Bridge.	Ferry.	Lighting.	Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.	Water.	Total.
February 1, 1924	41	193	175	3	691	600	328	447	514	2,992
February 1, 1925	39	191	169	3	695	623	325	446	525	3,016

### Total Eligible Force.

February 1, 1924	50	195	175	3	705	632	331	466	503	3,060
February 1, 1925	48	194	175	3	708	644	328	467	528	3,095

### Appointments, Transfers, Resignations, Retirements, Deaths, etc., of Employees.

Died.	Retired. Act of 1922.	Retired Veterans. Act of 1911.	Transferred to Other Depart- ments.	Transferred to Other Services.	Resigned.	Discharged.	February 1, 1924.	Services 1924-1925.	January 31, 1925.	Transferred from Other Services.	Transferred from Other Depart- ments.	Reinstated.	Appointed.
2			3	3			50	Central Office	* 48	4	2		
	7		1	1			195	Bridge	194	1	3		-4
3	4			1			175	Ferry	175	2	5		4
							3	Lighting	3				
11	33	1	2	11	- 6		705	Paving	708	34	8	3	22
7	12	I	2	17	8		632	Sanitary	644	6	7	2	44
5	9	1	2	22	8		466	Street Cleaning	467	3	3		42
6	1.4		1	2	2		331	Sewer	328	7	6		9
7	12	1	3	9	2		503	Water	528	12	8		39
41	91	4	14	69	26		3,060	Totals	3,095	69	42	5	164

<sup>\*</sup> Includes eight Central Office employees who are paid on Water Service pay roll.



### PART II. APPENDICES.

### APPENDIX A.

	CENTE	al Oi	FFICE.								
Appropriation						\$88,933	91				
Appropriation Expenditures from Fe	ebruary	1, 19	24, to	Janu	ary						
31, 1925						86,511	11				
Balance unexpen						@O 100	00				
City Treasurer					٠	\$2,422	80				
Expenditures.											
Salary, commissioner						\$9,000	00				
Salaries of clerks, ster	ograph	ers, et	· .			69,996					
Automobile expense:		,				,					
Wages, chauffeur .			. \$1	,633	67						
Bay State sedan .			. 1	.181							
Gasolene				236	39						
Storage				150	00						
Renairs				90	50						
Supplies				103	12						
Tires and tubes				68	52						
Oil, grease, etc.				22	31						
Registration				12	00						
			_			3,498	32				
Printing						2,454	31				
Stationery						454	78				
Postage						211	56				
Postage						37					
Travel expenses, car f	ares, et	c.				201	31				
Typewriter						88	00				
Inspection and repairs	s, typev	vriters				74					
Books napers etc.						362					
Sundries						125					
Sundries Surety bond						6	00				
						\$86,511	11				

### APPENDIX B.

### REPORT OF THE DIVISION ENGINEER OF THE BRIDGE AND FERRY DIVISION.

Boston, February 1, 1925.

Mr. J. A. Rourke,

Commissioner of Public Works.

Dear Sir,— I respectfully submit the following report of the income, expenditures, and operation of the Bridge and Ferry Division for the year ending January 31, 1925. The expenditures of the division in the regular maintenance appropriations of the department were \$981,598.76. Under special appropriations, \$595,354.24 additional was expended, making the total expenditures for the year \$1,576,953.

After years of litigation between the cities of Boston and Chelsea, the latter city has agreed to carry out the provisions of the findings of the Special Commission and the decree of the Supreme Court in regard to the bridges between Boston and Chelsea, constructed under the provisions of chapter 581, Acts of 1911, as amended by chapter 341, Acts of 1913. The city of Chelsea paid \$25,000 on January 1, 1925, as a first installment on the payment of \$100,000 to the City of Boston, agreed upon by Boston and Chelsea, on account of the maintenance charges of Chelsea Bridge and Meridian Street Bridge up to February 1, 1924.

The wearing surface of the following bridges has been changed from wooden sheathing to a more permanent type of pavement or they have been treated

with a bituminous topping:

In some cases these jobs were occasioned by the complete rebuilding of the structure when it was deemed advisable to change from the lighter type of structure formerly in vogue, with wooden sheathing, to a permanent structure usually of steel incased in concrete with a paving of permanent type.

In other cases where the under plank has been down for some time but is still good for a few years, a bituminous top has been put on, particularly where the bridge is a large structure. The bituminous top costs much less than the wood block but needs attention at least

once a vear.

Wherever the job is comparatively small and the under plank has needed replacing, it has been deemed advisable to put tongued and grooved under plank down, on top of which is placed wood block with asphalt joints, so that the roadway should need no repairs for a considerable period of years.

Arlington Street Bridge (over Boston and Albany Railroad).— Wood block.

Ashland Street Bridge (over New York, New Haven and Hartford Railroad).—Granite block.

Ashland Street Bridge (over Stony Brook).—Bituminous top.

Babson Street Bridge (over New York, New Haven and Hartford Railroad).— Wood block.

Beacon Street Bridge (over Boston and Albany Railroad).—

Granite block. Belgrade Avenue Bridge (over New York, New Haven and

Hartford Railroad).—Granite block. Bennington Street Bridge (over Boston, Revere Beach and

Lunn Railroad).— Wood block.

Berkeley Street Bridge (over Boston and Albany Railroad).— Bituminous top.

Blue Hill Avenue Bridge (over New York, New Haven and

Hartford Railroad) — Bituminous top. Boylston Street Bridge (over Boston and Albany Railroad).—

Bituminous top, outside car tracks only.

Broadway Bridge (over Boston and Albany Railroad). - Wood block.

Brookline Avenue Bridge (over Boston and Albany Railroad).

Wood block.

Cambridge Street Bridge (Allston) over Boston and Albany Railroad.— Wood block.

Chelsea South Bridge.— Granite block and wood block.

Dana Avenue Bridge (over New York, New Haven and Hartford Railroad).—Wood block.

Everett Street Bridge (over Boston and Albany Railroad).—

Bituminous top. Glenwood Avenue Bridge (over Mother Brook).— Wood block.

Harvard Street Bridge (over New York, New Haven and Hartford Railroad) — Wood block.

Hyde Park Avenue Bridge (over Stony Brook).— Wood block. Hyde Park Avenue Bridge (over Mother Brook).—Granite

Hyde Park Bridge (over electric connection).— Wood block. Milton Street Bridge (over New York, New Haven and Hartford Railroad) — Wood block and bituminous top.

New Allen Street Bridge (over New York, New Haren and Hartford Railroad).—Wood block.

Sprague Street Bridge (over New York, New Haven and Hart-

ford Railroad).—Bituminous top.

Watworth Street Bridge (over New York, New Haven and Hartford Raitroad).—Wood block.

West River Street Bridge (over Mother Brook).—Wood block. West Fourth Street Bridge (over New York, New Haven and Hartford Railroad, outside car tracks).—Bituminous top.

### Beacon Street Bridge.

A contract was made January 3, 1923, with the Phoenix Bridge Company at a price of \$104,416.01, for replacing the old bridge with a new structure, using the existing abutments. The subcontractor for the approaches and concrete work was A. G. Tomasello & Son Company. The work of reconstruction was

completed April 30, 1924.

The new structure is of steel encased in concrete. It has three main girders carrying a system of steel floor beams supporting two roadways with a concrete floor on which is laid granite block paving. The sidewalks have a granolithic surface and are carried on brackets from the two outside girders. All the metal below the floor is encased in concrete, and cast-iron plates are used over the railroad tracks to diminish the effect of locomotive exhaust. The bridge was widened on the westerly side so that it is now as wide as the street on either side. The water pipes have been placed under the railroad tracks so that with the new bridge a very much larger space is afforded for traffic than was the case with the old structure.

### Braddock Park Footbridge.

Extensive repairs have been made to the corroded steel work of this bridge and adjacent steps and a complete new wooden flooring placed by the day labor force.

Cambridge Street, Allston, Bridge over Boston & Albany Railroad.

A contract was made June 22, 1922, with the Boston Bridge Works, Inc., at a price of \$133,621.78, for removing the old bridge and replacing it with a new structure, utilizing the existing abutments. The subcontractor for the approaches and concrete work was Cross & Roberts. The bridge was completed May 17, 1924.

The new structure consists of four steel trusses. carrying steel floor beams, encased in concrete and supporting a concrete floor with wood block paving. There are three roadways, the middle carrying two lines of street railway tracks. The bottom chords of the trusses are raised above the floor level so that the locomotive gases will not cause corrosion. The easterly sidewalk is built outside of the easterly truss, thereby widening the bridge and giving a greater width to the easterly roadway. On the west side of the bridge brackets are built out from the truss to carry the gas pipe, thereby removing the gas pipe from the roadway surface. These changes have made all the roadways wide enough to carry two lines of vehicles with ease. The approaches to the bridge are paved with granite block

### Chelsea Bridge North.

Many of the piles supporting the sidewalk and roadway of the south approach to the swing draw at Chelsea Bridge North which were broken and decayed and several spur shores which had broken loose were repaired by the W. L. Miller Company, under a contract dated September 27, 1924. The work was completed on October 29, 1924, at a cost of \$2,800.76. A complete rebuilding of these pile approaches will be necessary in a few years.

A contract was awarded to the Murray Engineering Company, October 17, 1924, for cleaning and painting the steel work of Chelsea Bridge North draw span. The work will be finished in the spring of 1925. The City of Boston supplies the paint for the two finish coats, and the contractor the red lead paint for touching up rusty spots. The two finish coats are of blue lead and the paint weighs approximately eighteen pounds to the gallon.

### Chelsea Street Bridge.

The Rendle-Stoddard Company was awarded a contract for repairing the fender guard on October 4, 1924. It was also found necessary to extend this fender guard down stream about twenty-five feet to protect the pile bridge properly from the large steamers now passing through this bridge. Spur shores have been fitted under the draw pier and some planking on the pier replaced. The work was completed January 3, 1925, at a cost of \$4,668.52.

### Chelsea Bridge South.

As a preliminary step toward the building of a permanent new structure at Chelsea Bridge, over the south channel of the Mystic river, a temporary bridge was constructed alongside the existing bridge in 1913-14. The draw span of this temporary structure was the same as that used in the temporary bridge at the Chelsea Bridge North.

Various studies based on borings at the site were made for a permanent structure and a plan adopted on which licenses were obtained from the Public Works Department of the state and from the War Department. The plan provided for a bridge 365 feet long and 61 feet wide, having a 46-foot roadway and two  $7\frac{1}{2}$ -foot sidewalks. It provided for a channel in the waterway 75 feet wide with a depth of 25 feet and with piers at such a depth that it would be possible ultimately to dredge the channel to 35 feet at mean low water.

The draw span consists of a four-leaf bascule draw of the Strauss type, with main trunnion supports 119 feet between centers, operated by electricity. The draw span is paved with wood block.

The approach spans are composed of deck plate girder and beam spans, supporting a floor of concrete; the roadway has a wearing surface of granite block and the sidewalks a granolithic surface.

Automatic gates of the yielding type protect the draw opening. These gates are designed to stop a two-ton automobile traveling at twenty miles an hour without damage to either the gate or the automobile.

The masonry foundations of the bascule span reach to a depth of 40 feet below mean low water on the southerly side of the channel and 45 feet below mean low water on the northerly side and are in hardpan. They were placed by the use of steel sheet piling coffer dams. The lower parts of the foundations are of concrete and were placed under water. From about 15 feet below mean low water to the top of the piers, the concrete and masonry was laid in the dry, although the water was allowed to flow over it after a few hours had been allowed for the setting of concrete and mortar. The foundations for the approach spans rest on piles. All concrete from about mean low water to the top of the piers is faced with granite masonry.

The draw fender pier is about 426 feet long, the oak

piling is from 60 to 65 feet long, and the timber in the construction is of yellow pine or Douglas fir.

The bridge was built under a contract with the Holbrook, Cabot & Rollins Corporation, approved May 2, 1922, and the work was completed July 19, 1924. A large part of the wood work was sublet to the W. L. Miller Company, the steel work to the Boston Bridge Works, Inc., and the paving and curbstones to C. W. Dolloff & Co.

On October 17, 1923, a contract for a new drawtenders' house was made with the W. L. Miller Company, and the work was completed December 26, 1923, at a cost of \$5.374.

The construction of this bridge has greatly facilitated the movement of traffic, both on the street and through the waterway, and heavy lighterage charges have been saved the firms up stream from the draw span.

An agreement of 1914 between the Boston & Maine Railroad Company and the City of Boston provided that the city should rebuild a part of the freight shed on Mystic wharf, which was torn down during the construction of the temporary bridge, the rebuilding to be done when the permanent bridge was constructed.

The Boston & Maine Railroad Company requested that in lieu of the rebuilding of the freight house that the city amend the agreement and pay the Boston & Maine Railroad Company the amount of money that would be required for the rebuilding of the freight house. It was finally agreed that an amendment be made to the agreement, providing that the city pay to the Boston & Maine Railroad Company \$4,750 and the amendment to the agreement will soon be signed.

Some claims on the part of the contractor for the rebuilding of Chelsea South Bridge are still outstanding, so that the cost of this construction has not been finally determined.

### Commercial Point Bridge.

Patrick A. Colleran was awarded a contract for repairing and strengthening this bridge. The work consisted in refitting about six old spur shores, replacing girders, braces and girder caps where necessary and repairing the existing abutments by cleaning and filling the joints of the masonry with cement mortar and pinners. It was necessary to do considerable posting from new low water girders to strengthen the structure, as the tops of the

old piles were badly decayed. The contract was completed September 17, 1924, at a cost of \$2,194.40.

### Congress Street Bridge.

Borings were made under a contract with Martin F. Gaddis, approved on August 23, 1923, for wash borings across the channel, to determine the material for the foundations of the proposed bridge. The contract was completed on October 2, 1923, at a cost of \$1,666.02.

Plans drawn for the construction and maintenance of a new permanent bridge were approved by the Department of Public Utilities on November 28, 1924. Application has also been made to the War Department for permission to build this bridge.

The new structure will be of masonry and steel, with a draw having a clear opening of not less than 75 feet for the passage of vessels. Pile and timber fender

guards and piers will also be constructed.

A portion of the existing water pipe and tunnel will be changed by extending the westerly end of the pipe about 23 feet and building a new shaft at this point. The depth of channel will be increased to 25 feet at low water and the foundations of the new bridge built to allow the deeping of this channel to 30 feet at low water, if required by the Government.

The construction of this bridge will depend upon Legislative action authorizing a loan outside the debt

limit to the amount of \$800,000.

### Cottage Farm Bridge over Boston and Albany Railroad.

A contract was approved with Maurice M. Devine on August 5, 1924, for repairing the under part of the structure with gunite. This work was paid for by the Park Department but the engineering work and supervision was executed by the Bridge Service.

Some of the gunite of this bridge had become loose from the action of the locomotive gases. The loose material was removed and a new surface of gunite laid, which will probably last for five or six years, thereby protecting the steel and brick work of the structure.

### Dorchester Avenue Bridge.

A contract was awarded to the W. H. Ellis & Son Company on March 25, 1924, for repairing the fenders of the Dorchester Avenue Bridge, over Fort Point channel. The faces of the waterways were repaired, fender guards, capsills, caps and other timber work renewed where directed, new piling was provided where necessary, spur shores refitted and corner irons placed. The cost of this work was \$3.896.60.

A contract was awarded to the C. & R. Construction Company for repairing the sidewalks and flooring on August 28, 1924. This work consisted of replacing parts of the downstream sidewalk on both sides of the channel by putting in new stringers, new planking and new surfacing. Incidentally it was necessary to renew the adjacent curbsticks, roadway planking, some roadway stringers, and to repave some of the roadway. Some work was also required in the roadways near the draw cracks, where in co-operation with the city the Boston Elevated Railway Company removed and replaced the car track and paved in the track. This contract was completed October 23, 1924, at a cost of \$7.899.22.

Dartmouth Street Bridge over Boston and Albany Railroad.

An order of the Public Utilities Commission, issued April 27, 1923, provides for the rebuilding of this bridge in accordance with plans submitted by this division. It provides for the removal of the present superstructure and for the construction of two new piers on which will be placed a steel bridge, the steel below the flooring to be encased in concrete. The middle truss will be removed and the girders of the bridge will be placed on the sidewalks, thus making a single roadway instead of the two roadways on the present bridge and improving traffic conditions. The roadway is to be paved with granite block and the sidewalks will have a granolithic finish. There will be no street car tracks on the structure.

In the belief that this work should be done in two parts, a contract was awarded on September 5, 1924, to the New England Foundation Company to build the piers. There are two piers of reinforced concrete supported on concrete columns which rest on a layer of hard clay, and the bottoms of the columns are at about elevation 24.

The columns were placed by excavating inside steel caissons until hard bottom was reached, then the footing was enlarged and the excavation filled with concrete. On account of vibration in the ground due to the very close proximity of the railroad tracks, it was deemed

advisable to leave the steel shells in position. It was necessary before constructing the piers to make some slight alterations in the sewer system by relocating sections of the drains which would interfere with the building of the piers. In building the piers old piling and some parts of an old pier were encountered, causing a slight delay in the work. The contract, amounting to \$27,193.69, was completed January 9, 1925.

A contract was awarded to the C. & R. Construction Company, approved December 4, 1924, for building the steel and concrete superstructure for \$72,455.50.

Only the steel fabrication has been started.

### Harvard Street Bridge, Dorchester.

In co-operation with the New York, New Haven & Hartford Railroad Company, the day labor force has laid a tongued and grooved yellow pine plank floor, on which has been placed a wood block pavement with asphalt joints, making a much more permanent pavement than the old wooden sheathing.

### Huntington Avenue Bridge over Boston & Albany Railroad.

Under a contract approved October 31, 1924, the C. & R. Construction Company has removed all the loose concrete from the arches and beams on the under surface and has painted all exposed surfaces of metal work and the fences. The City of Boston supplied the paint for this work. Gunite was applied to surfaces of metal exposed by the removal of loose concrete. The contract will be completed in the near future.

### Hyde Park Avenue Bridge over Electric Connection, Hyde Park.

In co-operation with the New York, New Haven & Hartford Railroad Company, the wooden floor has been

entirely renewed by our day labor force.

A 4-inch tongued and grooved yellow pine plank has been placed on new stringers furnished by the railroad company and a wood block wearing surface, with asphalt joints, set on the yellow pine plank.

### Meridian Street Bridge.

The Boston Elevated Railway Company, in co-operation with the Bridge Service day labor force has com-

pletely renewed the wooden flooring of the draw span, doing the work on Saturdays and Sundays, shutting off all travel for two days and two nights in two consecutive weeks.

### Northern Avenue Bridge.

June 23, 1924, a contract was awarded the W. S. Rendle & Son Company for repairing the fender piers and building pile supports. The planking on the draw pier was renewed and the greater part of the stringers and capsills were replaced with new material. All loose spur shores were refitted and additional piles were driven in the fender pier near the sweep of the ends of the draw, for the purpose of supporting the jacks for the blocking up and leveling of the draw span. New corner irons were provided where required. The work was completed November 14, 1924, at a cost of \$17,270.43.

The continued settlement of the main draw pier at this bridge has made necessary the resetting of the draw track and the end bearings of this bridge. A contract was approved August 21, 1924, with the Edward J. Carnes Company, to raise and block up the draw. draw was swung off over the draw pier and jacked up on pile supports which had been previously placed. existing track was then cleaned and reset on antimonial lead at proper grade. New landing blocks for the end supports were installed and the draw placed in proper working condition. The cost of this work, completed November 6, 1924, was \$6,938.73.

The great amount of teaming travel over this and other bridges in the city has prompted this department to obtain a wearing surface which would be of a lasting nature. From the standpoint of first cost the ordinary method of sheathing with a wooden flooring has proven the most economical. This involved, however, the closing of parts of this bridge and others to travel so frequently that it has become a matter of public inconvenience. An experiment was instituted on this bridge with the use of rubber payement. In May a small section of the bridge over the draw pier was laid with this pavement which consists of blocks of composition rubber laid on a waterproofing compound and cemented together with a rubber cement. The rubber pavement was supplied by the Wright Rubber Products Company of Racine, Wis., and was laid by the Bridge Service force.

To date it has proven to be very successful and a severe test has been applied by the derailment of a freight car of the Union Freight Railroad. This car which ran over part of the pavement caused a slight depression in the surface which disappeared shortly after ordinary traffic had passed over it.

### Redfield Street Bridge, Dorchester.

The railroad has renewed the wooden stringers, on which the day labor force placed yellow pine deck plank, covered by 2-inch spruce, on which was laid a bituminous top of tarvia, stone and sand.

### Reservoir Road Bridge, Brighton, over Boston & Albany Railroad.

The wooden flooring of this bridge has been entirely renewed by the day labor force, in co-operation with the forces of the Boston & Albany Railroad Company.

### Summer Street Bridge over Reserved Channel.

A contract was awarded to the W. H. Ellis & Son Company on July 18, 1924, for the repairs of the piers and fender guards. All old timbers and flooring were removed and replaced with new material. Old piles were removed and old spur shores refitted. The landings for the draw were repaired and readjusted and repairs made to the woodwork of the draw foundations. The capsills, stringers, caps and planking of the piers and fender guards were renewed where necessary. The work was completed October 2, 1924, at a cost of \$8,018.25.

### Walworth Street Bridge over New York, New Haven & Hartford Railroad.

It was found that this bridge, formerly maintained by the railroad company, was in very poor condition, and the timber was very badly decayed.

The day labor force has completely renewed this bridge, putting in heavier timbers of yellow pine on which was placed a floor of 4-inch yellow pine tongued and grooved plank. For a wearing surface there was placed a wood block pavement, with asphalt joints. The approaches were also changed with bituminous macadam to meet the new grade.

Repairing Wharf and Dredging Dock, Engine 31, Commercial Street.

By request of the Fire Commissioner, estimates and a plan for repairs to the wharf and the dredging of the dock, to accommodate the fire boat, were prepared.

The contract with the Bay State Dredging Company was approved February 15, 1924. The work consisted of general repairs on the wharf including the driving of piling on the faces of the dock, replanking the runways and the deck of the wharf; also the dock itself was dredged to minus fifteen. The work was completed April 1, 1924, at a cost of \$4,184 29.

### Miscellaneous.

During the past year many bridges which had spruce plank for wearing surfaces have been covered with a bituminous topping from ½ inch to 1 inch thick, composed of broken stone and sand bound together with Tarvia. The results have been on the whole very satisfactory and will prove economical in the maintenance of the planking.

### FERRY SERVICE.

The following steam ferryboats are in commission:

Name.	When Built.	Type.	Length.	Gross Tonnage.
Hugh O'Brien		Side wheel	175 ft. 3 in.	
Governor Russell		Propeller	164 " 3 "	713
Noddle Island (rebuilt)	1921	"	174 " 5 "	564
General Sumner	1900	"	164 " 3 "	450
John H. Sullivan	1912	"	172 " 3 "	527
Lieutenant Flaherty		"	174 "	727
Ralph J. Palumbo		"	174 "	755

### "Governor Russell."

On June 24, 1924, the ferryboat "Governor Russell" was taken out on the marine railway of R. T. Green's yard, Chelsea, for examination of a propeller. A broken tail shaft was found; the other tail shaft had been broken and renewed in December of the previous year. After receiving bids to make the necessary repairs, the stern bearing was plugged and the boat towed to the Atlantic Works, East Boston, and a new tail shaft, complete with sleeves and bushings, was installed. The cost of this work was \$853.

### "Noddle Island."

On September 5, 1924, a contract with the Atlantic Works was approved for the sum of \$2,926 to install a ventilating plant on the ferryboat "Noddle Island." When the boat was built in 1920, an exhaust system of ventilation was installed. While this system was at first deemed sufficient to create satisfactory conditions below decks, it was soon decided that a supplementary system to introduce fresh air would be desirable. this end, a turbine blower was installed with all necessary piping outlets and inlet. At the same time, the piping of the exhaust plant was also renewed with suitable gauge galvanized iron ducts. After the installation, all galvanized iron ducts, connections and fittings were given a coat of bitumastic enamel paint in an effort to prevent the rapid corresion of this kind of piping on board ship On September 19, 1924, the boat was taken out on the marine railway of R. T. Green's yard, Chelsea, for general repairs to the hull. While extensive repairs were not contemplated, when an examination of the copper sheathing of the under water body of the boat was made possible, it was evident that a large number of sheets of yellow metal would be required to make satisfactory repairs. At the same time, one of the tail shafts was found so far down that a complete new stern tube and a new composition sleeve on the tail shaft were required. Miscellaneous work, such as painting the wood of the upper body of the hull, cleaning inlet boxes and strainers, and attaching four new propeller blades was also done. This work cost \$2,619.

### "General Sumner."

On March 10, 1924, the ferryboat "General Sumner" was taken out on the marine railway of R. T. Green's yard, Chelsea, for minor repairs to the hull. The hull was cleaned and painted and the inlet strainers were removed and cleaned. While the required repairs were not large, it was apparent from the condition of the planking and hull system generally that extensive repairs will be necessary shortly if the boat is to remain in commission. Perhaps the chief causes of damage are the heavy loads that are now carried (many of the coal trucks from adjacent yards weighing each in excess of fifteen tons when loaded, coupled with the fact that four lines of vehicles are now carried on the boat where the beat was originally designed for but two), and the strains set up as these excessive loads go on and leave the boat.

### "John H. Sullivan."

A contract was awarded to the R. T. Green Company, Chelsea, Mass., on October 17, 1924, to repair the

ferryboat "John H. Sullivan."

The work done under this contract consisted of dry-decking the boat, cleaning, scraping and wire brushing the hull, backing out 5,054 defective rivets and driving new ones, electric welding 74 defective rivets, caulking S14 feet of seams, painting the hull with two coats of red lead and one coat of anti-fouling paint, allowing sufficient periods of time between coats for the paint to dry, spot welding 608 guard iron fastenings, and furnishing in place landing irons to take the ends of the new electrically operated ferry drops.

While this work was progressing it was found necessary to make further repairs, which consisted of rewooding both stern bearings and fitting new keys for the wheels, raising both rudders, installing new blow backs on two sea cocks, packing main stuffing boxes, repairing one sponson brace, and renewing one disc and stem in one sea valve. The total cost of the repairs, including the extra work as noted above, was \$5,683.46. While the repairs to the hull were approximately as anticipated in the contract it may be mentioned that the deterioration of the rivets, plates and hull system generally is such that future repairs to the hull at greater cost may be required.

In connection with the contract for building the ferry bridges, both ends of this boat were strengthened and altered to fit the new drops, by the J. Edward Ogden Company.

### "LIEUTENANT FLAHERTY."

A contract was awarded to the Atlantic works, East Boston, on November 10, 1924, to repair the hull of the "Lieutenant Flaherty." The work done under this contract consisted of drydocking the boat, cleaning, scraping and wirebrushing the hull, electric welding 330 defective rivets, caulking and welding some seams, painting the hull with two coats of red lead and one coat of anti fouling paint, spot welding 1.241 guard iron fastenings, and furnishing in place suitable landing plates for the ends of the electrically operated ferry bridges. While the work was progressing, an extra work order was given to deliver on board a turbine generator furnished by the city, plug blow off openings, make new opening above braces, clean and drain bilges, furnish new guard timber on end, and effect minor repairs. The total sum paid the Atlantic Works for these repairs, including the extra work, was \$2,540.65. While the work required to make satisfactory repairs on hull at this time was not as extensive as anticipated, there are indications that future repairs will be more costly. Before the boat again went into service, the turbine generator, mentioned above, was installed in place of one of the two original generators which are connected up with reciprocating engines. Owing to the vibration set up in the boat when the old generators were running, it was thought advisable to use a turbine set in which there is no vibration. From the beginning the new generator has given complete satisfaction and that with a steam consumption much less than expected.

### "RALPH J. PALUMBO."

A contract was awarded to the Atlantic Works, East Boston, on December 11, 1924, to repair the hull of the ferryboat "Ralph J. Palumbo." The work done under this contract consisted of drydocking the boat, cleaning and painting the hull in a manner similar to "Lieutenant Flaherty," backing out 910 defective rivets and driving new ones, backing out 10 defective rivets and replacing with tap rivets, electric welding 672 defective rivets, caulking and welding 260 feet of seams, spot welding 1,243 guard iron fastenings, rewooding one stern bearing, raising one rudder, installing a new turbine generator, furnished by the city, recanvassing and painting the upper deck, furnishing in place new boiler fronts, cleaning bilges, and making several minor repairs. The total cost amounted to \$5,750.37. The condition of the under water body of the boat is such that next year some plates will need renewal and further riveting will be required.

### ELECTRICALLY OPERATED FERRY BRIDGES.

The satisfactory operation of the two electrically operated ferry bridges at the South Ferry, built last year, made it advisable to construct two more of a similar type. A contract was awarded to the Rendle-Stoddard Construction Company, Chelsea, Mass., on July 29, 1924, to build the necessary foundations at a cost of \$30,856.98. On August 5, 1924 a contract was awarded to the J. Edward Ogden Company, New York, to install two electrically operated ferry bridges with gallows frames and accompanying machinery, one at the northerly drop on the East Boston side and one at the southerly drop on the Boston side, at a contract price of \$234,000. This contract will complete the change from the old pontoon and wooden ferry bridges to the new steel type at the South Ferry.

The new steel ferry bridges have been built with a roadway of sufficient width to accommodate a double line of vehicles; the side walks are narrower than those on the wooden bridges. In this way, the movement of the vehicles is accelerated until the time of unloading and loading is not more than the time required for the move-

ments of the pedestrians.

In the new installation, dead load counterweights,

located in the side towers operating by means of cables running over sheaves in the gallows frames, are capable of balancing all but about two tons of the dead load at the end of the bridge. The rest of the dead load and thirty-eight tons of the live load are taken care of by means of the live load counterweights. The live load counterweights consist of about twenty tons of cast iron for each bridge. The leads from the bridge to these counterweights run over sheaves in the gallows frames and down to a sheave in the middle tower of the gallows frame; from the counterweights, leads are taken up and over this sheave, hung on the leads from the end of the bridge and down to the electrically operated winch. In this way the counterweights correspond to the standing end of a two-part purchase on the leads from the bridge and get a lift of forty tons on the end of the bridge by means of twenty tons of counterweights. By means of an ingenious arrangement at the end of the bridge, the mooring of the boat is accomplished in a satisfactory manner, without any independent means for such purpose, through the pull exerted by the live load counterweights. After careful consideration, the normal pull on the mooring device was reduced by dividing the live load counterweight, so that only when the excessive loading of the bridge takes place, will the full effect of the counterweights (forty tons) be called into play.

To raise and lower the bridge, a master control is located at the end where the deckhand on the boat may step from the boat to the bridge; in this way additional hands to operate the installations are not necessary. By means of overload releases, relays, limit switches, slack cable releases and similar devices the safe operation of the bridges is insured as far as possible. Not only are these devices used to safeguard against errors in manual operations but they automatically take care of the effect of the rise and fall of the tide and such changes in the elevation of the boat as may be caused by changes in trim when loads go on or off. The supports for the canopies at the inshore ends of the north drop, Boston side, and south drop, East Boston, have been altered to furnish wider roadways, and new wire gates on steel frames have been constructed for the new conditions.

With the completion of these new ferry bridges, the city will probably have the largest and best set of ferry bridges extant.

### Ferry Piers.

Under a contract with the W. H. Ellis Company. dated August 7, 1924, considerable repairs to the North Ferry piers were completed on January 31, 1925. at a cost of \$20,638.82: This work included the rebuilding of the head of the north pier on the Boston side, by driving new piles, rebinding all three pier heads on the East Boston side, and fitting in place chafing irons on the wearing surfaces of certain of the piles in all the piers. The last item is an attempt to reduce the excessive wearing of the surface piles which are rapidly cut through by abrasion caused by the guard fastenings on the boats slipping by as they enter the These chafing irons are attached to each fifth pile approximately, and from present indications, the irons accomplish all that was expected of them.

North Ferry Pontoon.—Repairs were made by the Murray Engineering Company, to the pontoon and drop of the North Ferry, Boston side, which were considerably damaged by a ferryboat on August 7, 1924. The work required the rebuilding and re-ironing of outshore end of the drop, fitting in place a new spring beam on the land end, taking the pontoon out of the water on a railway for calking, fastening of new blocking timbers, and resheathing complete with heavy vellow metal. When the bottom chords of the main trusses of the drop were uncovered, it was found necessary to make extensive repairs to replace the unsound timber. In order to expedite the work, an order was given to the W. H. Ellis Company, which was engaged in repairs to the adjacent pier, to drive a few temporary piles for construction purposes, block up the outshore end of the drop while the pontoon was being repaired. and build a new pile and timber guide for the drop to work against. The repairs to the pontoon were done under contract at a cost of \$2.875. The repairs to the drop were made by the day labor force of the Ferry Service aided by the Murray Engineering Company.

Under a contract made with the W. H. Ellis Company, dated October 28, 1924, the coal pocket dock at the South Ferry, East Boston, was repaired at a cost of \$1,455.56. This work consisted of rebuilding the foundation under the boiler and winch of the hoisting engine, driving new piles, fitting new caps and beams, laving a new deck, making fast new caps and covering boards, and driving and fastening new chafing and mooring piles. These last piles are for mooring ferry boats when not in commission and are made fast to the outside caps of the dock by means of bolts and large cleats to prevent any side motion. This work was

completed on January 6, 1925.

Under a contract made with the Rendle-Stoddard Company, dated June 18, 1924, some minor repairs were made on several piers at a total cost of \$4,133.75. Included in this work was the temporary straightening of pier head of the middle pier South Ferry, Boston, and the necessary driving of piles and timber work at the inshore ends of the piers of the south slip, South Ferry, East Beston, to fit the piers so that the boats can approach the new steel bridge more safely. Each pier was slightly extended on the inshore end to protect the concrete foundations of the new gallows frame and the chafing planking of the south pier was removed for a distance of about thirty feet so that the boat entering the slip would line up properly: This contract was completed on July 25, 1924.

Under a contract made with the Rendle-Stoddard Company, dated July 8, 1924, the middle pier of the South Ferry, Boston, about 130 feet long, was entirely rebuilt. In order to maintain the service at the South Ferry while the terms of this contract were being fulfilled, it was necessary to remove and rebuild first the upstream half of the pier while the downstream slip was being used and, on the completion of this phase, to complete the other half of the pier while the upstream slip was in commission. As on the corresponding East Boston side, the inshore ends of the piers of the north or upstream slip were built to conform to the line of the guards of the steel ferryboats. While this was a rebuilding of a former structure, the fact was considered that heavier loadings and heavier boats than the original pier was expected to resist, would act against the new pier; for this reason a more rugged and substantial installation was built. This work completed on December 1, 1924, cost \$32,656.13.

Yours respectfully,

John E. Carty, Division Engineer.

### BRIDGE SERVICE.

### Financial Statement, 1924-25.

Franchit	uree from Mainten	ance Appropriation.
Expeniii	анев јиот мастеп	ансе Арргориации,

-	-					-	
Boston bridge	s			. 8	426,330	81	
Boston and C	ambridge.	bridge	08		31 740	49	

---- \$458,071 30

### Total Expenditures.

From maintenance appropriations	\$458,071	30
From special appropriations .	317,758	25

(1.) Administration:

\$775,829 55

### EXPENDITURES ON BOSTON BRIDGES.

Salaries:	
Division engineer	\$3,750 00
Supervisor	3,000 00
Engineers and draughts-	
men	24,805 29
Foreman	2,088 36
Clerk	2,10575
Inspectors	
Medical inspector	
Pensions:	
Veterans	4,834 72
Laborers	360 00
Holiday time	2,043 50
Vacations	1,748 70
Pay to injured employees,	694 28
Printing. postage and	001 20
stationery	1,542 29
Traveling expense	
Telephone	31 00

Telephone Engineers' supplies and instruments . . . . 228 93 Typewriter inspection . . 33 00 Advertising . . . 139 69

\$50,236 12

\$11,781 34

(2.)	Yard and Stockroom:		
()	Yard:		
	Clerk, janitor and		
	watchmen .	\$3,837 26	
	Traveling expense	247 77	
	Tools, new	823 - 58	
	Tools, repairs	883 92	
	Telephone	139 24	
	Towels and furnishings .	15 - 00	
	Supplies	85 64	
	Repairs at yard	5.937 95	
			\$11,970 36
	Stockroom:		***,0.0
	Stock purchased during		
		ee e 1e =0	
	year	\$6,846 79	
	Stock used during year .	7,035 81	
	Decrease in stock		$189 \ 02$

Automobiles.

	Truck, B-1.	Truck, B-2.	Foreman, B-3.	Supervisor, B-1.	Division Engineer, B-5.	Total.
Wages, chauffeur			\$933 00	\$1,526 57	\$1,151 57	\$3,611 14
Storage			138 25	150 00	150 00	438 25
Repairs	\$1,214 56	\$116 34	384 79	168 29	226 12	2,110 10
Supplies	17 86	16 48	101 57	30 97	13 41	180 29
Oil and gasolene	279 43	162 83	424 89	240 35	320 35	1,427 85
New tires and tubes	150 41	76 94	178 19	135 89	196 33	737 76
Repairs, tires and tubes	4 00	28 75	150 70	25 75	49 60	258 80
Registration	2 00	4 00	12 00	12 00	12 00	42 00
New auto		1,655 00	461 50	574 00	1,400 00	4,090 50
Totals	\$1,668 26	\$2,060 34	\$2.784 89	\$2,863 82	\$3,519 38	\$12,896 69

Bridges.

Expenditures on Tide Water Bridges.

Bridges.	Draw- tenders' Salaries.	Mechanics' Wages.	Material.	Repair Bills.	Supplies.	Total.
Broadway	\$15,180 90	\$769 65	822 64	\$136 57	\$407 48	\$16,517 24
Charlestown	20,746 90	2,601 30	1,551 50	1,017 15	1,475 41	27,392 26
Chelsea North	17,433 56	4,117 99	464 25	4,863 83	1,515 96	28,395 59
Chelsea South	18,035 25	1,190 72	20 71	1,287 76	1,786 31	22,320 75
Chelsea Street	15,270 60	2,083 90	559 98	221 06	887 55	19,023 09
Congress Street	15,910 78	3,056 32	1,254 49	378 34	1,468 79	22,068 72
Dorchester Avenue	15,154 57	4,248 83	2,831 47	6,110 06	782 21	29,127 14
Dover Street	15,185 12	1,408 05	339 36	263 86	298 64	17,495 03
* L Street	15,154 13	1,027 67	580 62	711 02	448 45	17,921 89
Malden	15,730 69	785 65	124 92	807 28	932 09	18,380 63
Meridian Street	15,652 81	3,153 21	3,835 84	4,207 56	468 80	27,318 22
Northern Avenue	17,145 69	3,491 55	1,329 75	2,407 02	5,191 64	29,565 65
Summer Street	15,641 52	1,819 20	737 36	648 25	848 76	19,695 09
Warren	15,483 10	2,008 00	512 03	690 40	1,928 85	20,622 38
Totals	\$227,725 62	\$31,762 04	\$14,164 92	\$23,750 16	\$18,440 94	\$315,843 68

<sup>\*</sup> Now Summer street over Reserved channel.

### Repairs on Inland Bridges.

Bridge.	Labor and Materials.
Albany Street (over Boston & Albany Railroad)	<b>\$</b> 570_00
A Street (Stairs)	247 00
Arlington Street	1 13
Ashmont Street (Peabody Square)	97.76
Austin Street.	1,672 87
Beacon Street (over Boston & Albany Railroad)	35 19
Beacon Street (over outlet)	1 09
Berkeley Street	383 22
Blakemore Street	889 52
Blue Hill Avenue	2,134 21
Boston Street (over Railroad)	271 05
Boylston Street (over Boston & Albany Railroad)	3,163 34
Braddock Park	500 06
Baker Street	41 00
Broadway (over Boston & Albany Railroad)	941 07
Brookline Avenue	204 89
Broadway (over Foundry Street)	1 44
Broadway (over Lehigh Street)	59 27
C Street (Stairs)	1 40
Charlesgate West (over Ipswich Street)	1 09
Columbus Avenue	692 87
Clarendon Street	1 44
Dartmouth Street	301 44
Durham Street	185 25
Dorchester Avenue	271 00
Everett Street	1,139 44
Fairmount Avenue	941 92
Florence Street	238 58
Gainsborough Street	185 60
Huntington Avenue	63 21
Harvard Street	2,296 38
Hyde Park Avenue (over electric connection)	1,698 84
lpswich Street	1 09
Irvington Street	290 45
Massachusetts Avenue (over New York, New Haven & Hartford Railroad),	193 23
Massachusetts Avenue (over Boston & Albany Railroad)	1 44
Metropolitan Avenue	257 55

### $Repairs\ on\ Inland\ Bridges$ — Concluded.

Bridge,						Labo and Materia	
Norfolk Street						. \$887	90
Neptune Road						116	38
New Allen Street						. 11	00
Oakland Street						. 243	43
Perkins Street (Foot)						49	00
Redfield Street						992	63
Reservoir Road						. 199	78
Shawmut Avenue						. 12	94
Southampton Street						317	01
Summer Street (over A Street)						. 1	83
Summer Street (over B Street)						. 1	83
Summer Street (over C Street)						. 33	09
Toll Gate Way						22	52
Tremont Street						214	50
Walworth Street						3,037	41
Webster Street						982	01
West Fourth Street						373	96
West Newton Street						578	69
Winthrop						. 47	41
Wadsworth Street						44	00
Cleaning bridges							33
Totals		<del>-</del>					98
Summary of 1	Expen	DITUH	RES.			-	==
Administration						\$50,236	1:
tura tura stockiroom				:		11,781 12,896	
Tide water bridges						315,843	68
Inland bridges					٠	35,572	98
Total						\$326,330	0

### BRIDGES, REPAIRS, ETC.

Chelsi	ea I	BRIDG	E N	ORTH.		
Salaries of engineers					\$145	76
Transit Department pay roll					76	80
Murray Engineering Company					2,337	50
William L. Miller Company					4.303	
M. F. Gaddis					666	03
Carried forward .					\$7.529	82

Brought forward Advertising Material Repairs							\$7,529 82	
Advertising							$\begin{array}{c} 14 & 50 \\ 2,166 & 02 \end{array}$	
Material							2,166 02	
Repairs Traveling expense							453 40	
Traveling expense							8 35	
								\$10,172 09
	C	HEIST	e 4 S	TPFI	er B	RIDGE		
D 11- 64-14-14 C-1		1115151	3.4	1 161.1	,	10117(112		
Rendie-Stoddard Col	npau	I.V					\$3,968 24 326 70	
Nepairs				-			13 65	
License							1 00	
Rendle-Stoddard Cor Repairs							2 00	
Engineer a supplies					•	•		4,311 59
								-,
	Co	MMER	CLU	. Po:	XT I	Bridg	Е.	
Salaries of engineers								
P A College							\$316 66 2,194 40 7 50 230 00	
Advortising				•			7 50	
P. A. Colleran Advertising Bituminous surface							230 00	
Dittillinous surface						•		2.748 - 56
								2,7 40 00
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Salaries of engineers C. & R. Construction Repairs Advertising Traveling expense Bituminous surface Material	Oice	CILLOI	1310		· CL	DIVIDO		
C & P Construction	, Ċa	· mnnnn					6.716.61	
Panaina	1 ( 0)	mpan	.`				\$625 12 6,716 64 858 20 8 00 2 25	
Advertising							8 00	
Traveling evnence							9 25	
Rituminous surface							193 55	
Material		•			٠		597 78	
Material		•					301 1	9,001 - 54
								3,001 5x
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							\$559 13 7,564 32 170 49 570 36 7 00 8 90	•
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	Hun Con	oring opan	ron	AVE	NUE		\$559 13 7,564 32 170 49 570 36 7 00 8 90	•
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense	Hun Con	oring opan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90	•
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense	Hun Con	TING mpan ERIDI	ron	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90	•
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense	Hun Con	oring opan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90	•
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense	Hun Con	TING mpan ERIDI	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90	•
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense	Hun Con	TING mpan ERIDI	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 8 90 8 90 1,225 81 48 55	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 1770 48 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55  £278 40	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 49 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55  £278 40	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	ron y	AVE	NUE	BRID	\$559 13 7,564 32 170 36 7 00 8 90 1,225 81 48 55 E. 82,105 34 278 40 6,988 73 1,062 15	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 170 36 7 00 8 90 1,225 81 48 55 E. 82,105 34 278 40 6,988 73 1,062 15	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 1770 49 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55  \$2,105 34 278 40 6,988 73 1,062 15 19,010 46 237 38	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 170 36 7 000 8 90 1,225 81 48 55 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 170 48 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55  \$2,105 34 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00 10 80	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 1770 49 570 36 7 00 8 90 1,225 81 48 55 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00 10 80 94 35	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 170 48 570 36 7 00 8 90  \$3,610 00 1,225 81 48 55  \$2,105 34 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00 10 80	8,880 20 4,884 36
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	Hun Con M	TING mpan	Y AN	AVE	NUE	BRID	\$559 13 7,564 32 1770 49 570 36 7 00 8 90 1,225 81 48 55 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00 10 80 94 35	8,880 20
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs Material Advertising  Salaries of engineers Transit Department of Edward J. Carnes C. & R. Construction W. S. Rendle Comparate and Engineers supplies Traveling expense Advertising  Freight Freight	M Noon Conny	TING mpan	Y AN	AVE	NUE	BRIDGE	\$559 13 7,564 32 170 36 7 00 8 90 1,225 81 48 55 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00 10 80 94 35 68 38	8,880 20 4,884 36 31,766 06
Salaries of engineers C. & R. Construction M. F. Gaddis Materials Advertising Traveling expense  Repairs . Material	M Noon Conny	mpan ERIDI RTHEI	TON  Y  AN 3	AVE	NUE	BRIDGE	\$559 13 7,564 32 170 36 7 00 8 90 1,225 81 48 55 278 40 6,988 73 1,062 15 19,010 46 237 38 1,907 07 3 00 10 80 94 35 68 38	8,880 20 4,884 36

Sum	IMER	STRE	ет (	Over	RES	SERVED	Снам	NEL.	
Brought forward Salaries of engineers W. H. Ellis & Son C Advertising Photographs Material Traveling expense							\$291 8.018		\$71,764 40
Salaries of engineers							\$291	52	
W. H. Ellis & Son C	Comp	any					8,018	55	
Advertising	•						8,018 17 35	40	
Motorial	•						$\frac{30}{240}$		
Traveling expense			•				1	05	
Traveling expense									8,604 10
	Web:	STER	STR	EET	Fоот	BRID	GIE.		,
Material			~			22.11.2	\$481	11	
Repairs		•	•	•	•	•	155	93	
Flagman	•						96	43	
Mechanics		Ċ	Ċ				132		
Transit Department	pay	roll					873	10	
•								_	1,738 57
ALBANY STREE	т Вв	IDGE	Ovi	ев В	osto	N & A	LBANY	RAI	LROAD.
Repairs Transit Department							\$93	79	
Transit Department	Pav	roll	•	•	•	•	346	40	
- The contract of the contract	- 4.5	- 011		•	•				440 19
To:						RIDGE.			
Bituminous surface									305 00
	Вт	AKEM	ORE	STR	EET	Bridge			
Material	171,		01012	, , , , ,	LLI.		950	00	
Bituminous surface			Ċ	Ċ	Ċ		221	10	
		•	•	•	•				271 10
		Bir	εН	n.	Aves	VUE.			
Bituminous surface									621 50
	•	•	•	•	•		•	•	021 00
		$B_{R}$	OADV	VAY :	Brid	GE.			
Repairs									$28 \ 00$
	1	Cosmo	× 4	TOPE	m Br	RIDGE.			
D:4					_				100 50
Bituminous surface		•		•	٠				196 50
	Rρ	0051	INT	Aves	TTT	Bringe	,		
Bituminous surface									583 59
	•		•	•	٠		•	•	303 30
Boylston Stre	ET B	RIDGI	E ()1	ER ]	Воят	ON & 2	ALBAN	r Ra	ILROAD.
Bituminous surface									344 50
22	Pı	ERKEI	EY	Stre	ET I	Bridge.			
Material							\$314	60	
Bituminous surface							234	40	F 40 00
									549 00
		Byro	n S	REE	r Br	IDGE.			
Bituminous surface									$173 \ 50$
TO:	Be	XXIX	TON	STR	EET	Brings	2		104.00
Bituminous surface	BE:	NNING	TON	STR	EET	Bridge	c		164 80
Bituminous surface	BE:	NNING	TON	STR	EET	Bridge	c		164 80
Bituminous surface	BE:	NNING	TON	STR	EET	Bridge	c		164 80
Bituminous surface Bituminous surface Transit Department	BE:	NNING	TON	STR	EET	Bridge	c		164 80
Bituminous surface Bituminous surface Transit Department	BE:	NNING	TON	STR	EET	Bridge	c		
Bituminous surface Bituminous surface Transit Department	BE:	NNING	TON	STR	EET	Bridge	c		164 80 710 40
Bituminous surface Bituminous surface Transit Department Carried forward	Be:	NNING CHAF roll	CTON CLES	STR · · · ·	EET · · Br ·	Bridge  idge.	\$646 63	50 90	710 40

	$C_{\rm E}$	NTRA	ı A	VENU	ΈΒ	RIDGE	:.			
Brought forward Bituminous surface	÷	:	:	:	:				\$86,495 439	
	C	HELS	ea I	Bride	E S	outii.				
Repairs									$^{2}$	33
	C'LA	RENT	ZOC	STRE	ET I	BRIDG	E.			
Bituminous surface									143	65
	Co	VCPE	ee S	TDEE	er B	RIDGE	e.			
Repairs									89	12
- Paris										
Material	E	ERET	TT >			RIDGE		27		
Bituminous surface							\$1,047 601	10		
									1,648	37
TO:						Bride			000	10
Bituminous surface	•	٠		•					286	10
	H	ARVAI	RD S	TREE	ет В	RIDGE				
Repairs Bituminous surface		:				:	\$58 976	50		
Dituminous surface				•	•	•			1,034	50
Hyde Pa	RK .	AVEN	CE I	Звір	GE (	)VER	STONY	Вко	ок.	
Bituminous surface									950	00
Hyde Park A	VENI	E B	RIDG	e Ov	CER.	Elec	TRIC CO	NNE	CTION.	
Repairs Bituminous surface Transit Department							877	80		
Bituminous surface		ii					900	00	1,150	70
Transit Department	pay.	ron					172	90	1,1.00	10
					-	RIDGE				
Bituminous surface		٠	٠			•			419	50
	N	ORFO	LK S	TREE	ет В	RIDGE	s.			
Bituminous surface									327	00
	N	ЕГТІ	NE	Roai	р Ві	RIDGE.				
Material							\$196 155	60		
Bituminous surface						٠	155	50	353	10
	R:	EDFIE	ın S	STRE	er F	Bridg			,,,,,	
Material							\$1.493	75		
Repairs							300	00		
Bituminous surface		٠	•	•		٠			1,786	75
	R	ESER	voir	Ros	AD B	RIDGI	Ε.		,	
Advertising									22	30
	S	PRAGI	UE S	TREE	ет В	RIDGE	e.			
Bituminous surface									353	71
	Sour	гнам	PTON	ST	REET	Bri	OGE.			
Bituminous surface									237	80
Carried forward									\$95,739	08

	W	ARRE	n I	Bridge	E.			
Brought forward . W. H. Ellis & Son Comp	any		:					\$95,739 08 881 73
WES								
Material Bituminous Surface						\$480 1,816	38 50	2,296 88
$H_{\star}$	LT WY	nmri S	4mm	еет В				2,290 00
A. G. Tomasello & Son		KII k	91 K	EET 13	RIDGE		03	
Repairs			:	:	:	\$800 78	00	
1						_	_	878 93
Totals								\$99,796 62
Beacon	STR	EET 1	3en	nce 1	пич.	LDING		
The Phoenix Bridge Con					CED CT	2211101		\$18,650 85
Repairs	·pany			:				1.191 83
Installing lights								487 14
Material .								56 50
Photographs								$\begin{array}{ccc} 25 & 80 \\ 15 & 00 \end{array}$
Engineers' supplies		•						10 26
Repairs Installing lights Material .  Traveling expense Photographs . Engineers' supplies Salaries, engineers								162 50
								\$20,599 88
Commen	0.		ъ.		D			
Cambridge Boston Bridge Works .			ы	,		UILDIN		e16 990 09
Material Material	•	•			٠			\$16,339 03 56 50
Photographs	:							15 00
Traveling expense								2 10
Material								112 50
								\$16,525 13
C	HELS	ел В	RID	ge So	UTH.			
Holbrook, Cabot and Roll								\$130,845 35
W. L. Miller Company . Boston Bridge Works .							Ċ	3,209 10
Boston Bridge Works								551 11
Strauss Bascule Bridge W	orks							800 00 100 00
Inspection of material		•		٠			•	105 00
Photographs								81 00
Light and power services								499 92
Paving draw span .								650 00
Repaire			٠				•	698 62
Traveling expense		•		•		•		587 98 185 55
Engineers' supplies				i.			Ċ	12 78
Water supply pipe Light and power services Paving draw span Equipment tools Repairs Traveling expense Engineers' supplies Salaries, engineers								5,686 86
								\$144,013 27
Congre	ss S:	REET	В	RIDGE,	PLAN	s, Etc	z. '	
Engineers' supplies								\$35 84
Salaries, engineers .								917 07
Advertising							•	16 15 30 00
Inotographis			•					
								\$999 06

	$D_{\Lambda R}$	тмои	тн 8	STR	EET :	Brie	GE.			
New England Founds	ation	Com	pany						\$23,114	64
Western Union Teleg	raph	Com	pany						3,233	
The Pierce Company									840	20
Mark H. Lynch									692	85
M. F. Gaddis									761	38
Central Construction	Con	pany							18	63
Material									151	65
Advertising									30	50
Inspection of materia	1.								45	94
New York, New Hay	en &	: Har	tford	LR	ailroa	ad			11	10
Traveling expense					,				55	50
Engineers' supplies									224	58
Salaries, engineers									6,642	05
									\$35,822	37
	() <sub>LD</sub>	HAR	BOR	Im	PROV	EME:	NTS.			_
Engineers' supplies									\$1	92

### Expenditures from Special Appropriation in Charge of Bridge Service.

	Balances from 1923-24.	Total Credits, Including Balances Carried Over and Transfers.	Expended During Year 1924-25.	Balances Unexpended January 31, 1925.
Bridges, repairs, etc	\$2,245 40	\$113,245 40	\$99,796 62	\$13,448 78
Beacon Street Bridge, rebuilding	66,237 77	54,238 28	20,599 88	33,638 40
Chelsea Bridge South	34,840 24	184,840 24	144,013 27	40,826 97
Cambridge Street Bridge, rebuilding	33,420 05	33,420 05	16,525 13	16,894 92
Congress Street Plans, etc	24,845 97	24,845 97	999 06	23,846 91
Dartmouth Street Bridge		145,000 00	35,822 37	109,177 63
Dover Street Bridge <sup>1</sup>	80 17			
Hyde Park Avenue Bridge²	515 98			
Sea wall, etc., Roxbury Canal <sup>3</sup>	10,927 06			
Old Harbor Improvements4	6,479 22	1 92	1 92	
Totals	\$179,591 86	\$555,591 86	\$317,758 25	\$237,833 61

<sup>1 \$80.17</sup> transferred to East Boston Ferry, Improvements. 2 \$315.98 transferred to East Boston Ferry, Improvements. 3 \$10,927.06 transferred to East Boston Ferry, Improvements. 4 \$6.477.30 transferred to East Boston Ferry, Improvements.

### Boston Bridges.

I.	Number wholly maintained by Boston: In charge of Bridge and Ferry Division In charge of Bridge and Ferry Division and	65	
	Park and Recreation Department In charge of Park and Recreation Depart-	2	
	ment	18	85
II.	within its limits:		
	In charge of Bridge and Ferry Division In charge of Park and Recreation Depart-	6	
***	ment	- 	11
III.	cost of maintenance:		
	In charge of Bridge and Ferry Division In charge of Commissioners for Beston and	8	
	Cambridge Bridges In charge of Commissioners for Granite	6	
IV.	Avenue Bridge		15
ν. V.	or a part of the wearing surface.  Number maintained by Metropolitan District		33
VI.	Commission  Number maintained by railroad corporations:		6
11.	Boston & Albany Railroad     Boston & Maine and Beston & Albany	4	
	Railroads 3. Boston & Maine Railroad, Eastern Di-	1	
	vision	1	
	road	1	
	Railroad, Midland Division 6. New York, New Haven & Hartford	13	
	Railroad, Old Colony Division	4	
	Railroad, Providence Division	16	40
VII.	Number maintained by the United States Government		1
	Total number		191

# Bridge Openings.

							1		•	0										i
Вягьче	x.	STEAMERS	vi.	NAILI	SAILING VESSELS.	ELS.		Tres.		~	BARGES.		ALL	ALL OTHERS.	ź	Tota	Total Number of Vessels.	S. S.	Number Cargoes	Number .sgningqO
	Day.	Night.	Night.   Total.   Day.	Day.	Night.	Total.	Day.	Night.	Total.	Day. Night.	Night.	Total.	Day. Night.	Night.	Total.	Day.	Night.	Total.	letoT lo	atoT to
Broadway	33	16	49	20	Ĉ1	í.	1,662	27	1,705	528	19	547	979	21	581	2,872	- 28	2,954	611	1,295
Charlestown	ī	56	#	55	7	13	2,530	127	2,657	532	127	629	2,018	749	2,767	5,151	1,439	6,590	1,681	1,96,1
Chelsea North	1,077	95	1,133	59	-	89	9,511	1,181	10,692	1,489	116	1,605	2,164	1,086	3,250	14,308	2,440	16,748	2,442	6,127
Chelsea South	51	9	ĕ	10	ા	S	5,477	348	5,825	129	×.	137	2,940	65	3.162	8,649	586	9,23	1,939	3,122
Chelsea Street	2-	0#	3.	-			1,646	14	2,093	318	51	396	954	6.	1,050	2,998	634	3,632	730	1,820
Congress Street	141	5	17.5	7.0	ಣ	8	2,646	252	2,898	604	65	989	908	99	875	4,276	387	1,663	853	2,510
Dorchester Avenue	18		19	-51		5.	1,639	Z	1,720	306	500	541	575	33	509	2,847	157	3,004	909	1,589
Dover Street	21	-	00	11	+	5	1,607	ŝ	1,696	510	7	551	618	98	449	2,808	165	2,978	614	1,415
L Street *	55	1-	30	¥	00	3	2,202	36	2,235	56	16	310	1,403	39	1,462	3,969	121	4,090	648	2,596
Malden	35	75	92	11	9	83	1,068	3	1,131	273	63	336	295	<u>61</u>	316	1.711	171	1,882	361	1,181
Meridian Street	935	487	1,420	65	11	i-	6,553	1,365	7,918	994	395	1.292	3,267	##	3,711	11,813	2,605	2,605 14,418	1,769	7,911
Northern Avenue	855	551	1,406	3	1	S	4,729	299	5,325	2	433	1,257	2.254	214	2,468	8,744	1,798	10,545	2,338	4,861
Summer Street	118	17	13.	11	21	5.	2,618	396	2,914	599	66	869	33	iā	879	4.234	468	4.70	797	2,625
Warren	124	198	325	55	೧೦	55	2,441	503	2,944	975	96	1,071	1,365	627	1,992	4,957	1,427	6,384	1,528	3,225
Totals	3,533	1,479	5,012	828	45	873	873 46,329	5,430	51,758	8,605	1,434	1,434 10,039	20,060	3,705	3,705 23,765	79,337 12,480	12,480	91,817	16,917 42,241	2,241
							* Nov	v Sumn	* Now Summer street over Reserved channel	t over B	eservec	channe								

### Granite Avenue Bridge.\*

Granite Avenue Bridge is under the jurisdiction of a commission composed of the Mayor of the City of Boston and the chairman of the Board of Selectmen of the town of Milton.

The replacement of broken and bent angles in the lateral bracing system and other minor repairs were done this year.

Following is the financial statement:

Drawtenders	sa	laries					\$2,313	
Fuel .							31	50
Light .							20	-19
Office supplie	s						17	65
Material .							24	58
Repairs .							185	06
							3	75
							\$2,596	$^{23}$

<sup>\*</sup> Maintained jointly by County of Suffolk and town of Milton.

Granite Avenue Bridge Openings from February 1, 1924, to January 31, 1925.

							.	0	6					or (in finance)	,	:				
Months.	55	Steamers.	ģ	SAII	SAILING VERSELS.	ESSELS.		Tras.			BARGES.	vi.	Ā	Алд Отнеля.	SRS.	Tor	TOTAL NUMBER OF VESSELS.	IBER LS.	Number Zargoes.	Number Sprinsge.
	Day.	Night.	Total.	Day.	Total. Day. Night.	Total.		Day. Night.	Total.		Day. Night. Total. Day. Night.	Total.	Day.	Night.	Total		Day. Night.	Total.	fstoT ) to	latoT ) to
February			:	_ :			10		10	77		***	<b>େ</b> ।		c)	16		16	C1	7
March	-	:					i			-	-	:	ç.	:	C1		:			61
April	-	-	1	i	:	i	30	:	50	œ		œ	es	-	co	24	:	45	4	17
May	:	-		-	:	-	27	:	12	শ	- 1	₩.	1~	Ç1	6	19	61	21	61	16
June	C1	1	es		:		46	:	46	13	**	13	13	4	17	74	9	79	10	50
July	П	-	61	-	C)	က	88	16	104	ic.		10	80	34	114	170	63	233	45	129
August	-	:	-	-	-	c)	28	¢1	99	12	-	12	43	13	99	112	18	130	16	83
September	:	:		-		-	14	:	14	1-		۲-	25	10	35	47	10	57	4	41
October	:	-	:	:	:		20	-	20	6		6	13	-	14	42	-	43	ď	30
November	-	:	:		:		14	:	14	-1	-	1-	:	:		21	:	21	4	13
December		:	-	:	:	:	16		16	6		6	-	:		25	:	25	7	14
January	:	:			:	:	∞		œ	ಣ	:	89	-	-		==	:	11	23	9
Totals	10	61	-	9	ಣ	9	306	18	324	81		81	188	64	252	562	86	099	ま	415
							-													

### FERRY SERVICE.

Financial Statement for the 1925.	Year Eni	OING	January	31,
1. Receip	ts.			
Total cash receipts during the year Cash in hands of tollmen at beginn		r .	\$81,161 200	
			\$81,361	71
Cash paid over to City Collector . Cash in hands of tollmen, January	31, 1925		\$81,161 200	
			\$81,361	71
2. Appropriations and	d Expendit	ures.		
Received from annual appropriati	on for Fe	rry		
Service			\$521,688 7,865	
Transferred to ferry improvements			\$529,554 6,027	
			\$523,527	.16
Unexpended balances from special			\$020,021	40
appropriations, February 1, 1925 Appropriation for East Boston	\$113,072	86		
Ferry improvements, etc Appropriation for ferry improve-	275,000	00		
ments, etc	60,000			
Transferred from Bridge Service	2,857			
Transferred from Ferry Service .	6,027	05		
Transferred from bridges, repairs,	9,000	00		
etc	6,721			
Transferred from Roxbury sea	0,721	10		
wall, etc.,	10,927	06		
Transferred from Old Harbor im-				
provements	$6,\!477$	30		
Transferred from Hyde Park Avenue Bridge	515	98		
Carried forward	\$490,598	38	\$523,527	46

$Brought\ forward$	\$490,598	38	\$523,527 46
Transferred from Dover Street Bridge	80 1,999	17 49	492,678 04
Total appropriations, transfers	and balan	ces	
carried over			\$1,016,205 50
Total expenditures			798,529 14
			\$217,676 36
Unexpended balances of special ap January 31, 1925			\$217,676 36
3. Result of Operation	s for the	Yea	ar.
3. Result of Operation Receipts for the year (net income)	s for the	Yea	ar. \$81,161 71
Receipts for the year (net income) Ordinary expenses (maintenance	s for the	Yea	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations)	s for the		
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt	\$523,527 41,710	46 00	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats	\$523,527	46 00	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats Decrease in value of machinery and	\$523,527 41,710 57,315	46 00 17	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats Decrease in value of machinery and tools	\$523,527 41,710 57,315	46 00 17 41	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats Decrease in value of machinery and tools Decrease in value of fuel on hand	\$523,527 41,710 57,315	46 00 17 41	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats Decrease in value of machinery and tools Decrease in value of fuel on hand Decrease in value of supplies on	\$523,527 41,710 57,315 162 2,729	$\begin{array}{c} \cdot \\ 46 \\ 00 \\ 17 \\ 41 \\ 93 \end{array}$	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats Decrease in value of machinery and tools Decrease in value of fuel on hand	\$523,527 41,710 57,315 162 2,729	$\begin{array}{c} \cdot \\ 46 \\ 00 \\ 17 \\ 41 \\ 93 \end{array}$	
Receipts for the year (net income) Ordinary expenses (maintenance appropriations) Interest paid on ferry debt Depreciation on ferryboats Decrease in value of machinery and tools Decrease in value of fuel on hand Decrease in value of supplies on	\$523,527 41,710 57,315 162 2,729	$\begin{array}{c} \cdot \\ 46 \\ 00 \\ 17 \\ 41 \\ 93 \end{array}$	

 $<sup>\</sup>ast$  Does not include expenditures for special appropriations.

4. Balance Sheet.

End of Fiscal Year, January 31, 1925.

	The state of the s	inter of a vocas a court of contract of the contract of	
Assetts.		LIABILITIES.	
s: of tollmen at close dies, viz.:	\$200 00	CURRENT LIABILITIES: None.	
Fuel. \$12,438 68 Supplies for maintenance. 7,649 54 Routs received by	20,088 22		
Total available assets	\$20,777 43		
Contingent Assets: City Treasury	217,676 36	Contingent Liabilities; Appropriations account.	\$217,676 36
Fixed Assers: Real estate, land and buildings! Ferryboats <sup>3</sup> Machinery, tools, etc.	2 610,100 00 857,439 71 4,163 58	rries: he city invested i penditures, of all ars, including i	
Total tangible assets Deficiency or loss by operation and mantenance of the ferries for sixty-seven years to date	\$1,710,157 08 9,282,426 39	debt. Sils,822,417 97 Less total receipts. 8,047,510 86	10,774,907 11
	\$10,992,583 47		\$10,992,583 47
1 Original puredase.  New buildings, drops, slips, cest to 1913, 607,523 64  Land, Lincold S Wharf, cost, 1887 5,522 52  Land, Battery Bart, cost, 1887 (5,000 00	2 00 2 52 0 00	Assosans' figures Total cost to date, per ferry books \$1,642,202 91 Less boats sold, deprecation or de- Sest,763 29	11
See 4 and 5	1 16	\$857,439 71	1-7
ary 1, 1925	0 00		
\$1,229,461 16	1 16		

### Comparative Balance Sheets at the Close of Each Year.

	January 31, 1921.	January 31, 1922.	January 31, 1923.	January 31, 1924.	January 31, 1925.
Assets.					
Cash, balance on hand					
Cash, tollmen's capital	\$200 00	\$200 00	\$200 00	\$200 00	
Rents receivable	146 20	187 85	251 37	392 35	489 21
Fuel and supplies in stock	35,852 94	27,308 70	25,831 83	23,097 11	20,088 22
City Treasurer (balance of appropriation)	947,082 35	263,531 73	255,944 84	113,072 86	217,676 36
Ferryboats (less depreciation)	379,450 27	1,024,067 76	972,070 25	914,754 98	857,439 71
Machinery and tools	2,227 90	2,005 11	1,804 60	1,624 14	4,163 58
Real estate, land and buildings (assessors' valuation)	610,100 00	610,100 00	610,100 00	610,100 00	610,100 00
Total tangible assets	\$1,975,059 66	\$1,927,401 15	\$1,866,202 89	\$1,663,241 44	<b>\$1,71</b> 0,157 08
Cost of avenues, etc., East Boston. (previous to 1870)	315,815 68	315,815 68	315,815 68	315,815 68	315,815 68
Deficiency of assets (loss)	6,395,570 42	6,865,402 36	7,393,091 23	8,149,845 42	8,966,610 71
Totals	\$8,686,445 76	\$9,108,619 19	\$9,575,109 80	\$10,128,902 54	\$10,992,583 47
Liabilities.					
Capital invested by City of Boston to date	\$7,739,363 41	\$8,845,087 46	\$9,319,164 96	\$10,015,829 68	\$10,774,907 11
Appropriations account (eredit balances)	947,082 35	263,531 73	255,944 84	113,072 86	217,676 36
Total liabilities	\$8,686,445 76	\$9,108,619 19	\$9,575,109 80	\$10,128,902 54	\$10,992,583 47
Details	of Capital In	nvested by the	City of Bosto	n.	
Total expenditures to date per ferry books	\$15,113,454 44	<b>\$16,309,053</b> 08	\$16,865,009 88	\$17,658,444 98	\$18,501,559 <b>12</b>
Interest of debt for the year (per City Auditor's reports)	15,211 67	29,795-00	49,585 00	44,585 00	41,710 00
Interest previous years, etc. (net debits, per City Auditor's reports)	279,148 85	279,148 85	279,148 85	279,148 85	279,148 85
Total expenditures	\$15,407,814 96	\$16,617,996 93	\$17,193,743 73	\$17,982,178 83	\$18,822,417 97
Deduct total receipts paid to City Collector	7,668,451 55	7,772,909 47	7,874,578 77	7,966,349 15	8,047,510 86
Excess expenditures, capital	\$7,739,363 41	\$8,845,087 46	\$9,319,164 96	\$10,015,829 68	\$10,774,907 11
			I	1	1

Included in deficiency of assets in Table 4.

# Comparison of Receipts, Appropriations and Expenditures.

	1920–21.	1921-22.	1921-22. Special Account.	1922-23.	1923–24.	1924–25.
Receipts.						
From foot passengers (tollmen)	837,926 79	\$41,876 31		\$35,221 49	\$31,059 13	\$27,347 91
" foot passes (office sales)	423 80	282 20		249 20	254 40	280 20
" extra passengers on teams (gatemen)	1,546 34	1,740 60		1,639 04	1,212 80	1,525 94
" team tickets (office sales)	2,519 50	1,892 50		1,723 00	1,621 50	1,947 00
" strip team tickets (tollmen)	17,151 00	16,147 00		17,766 50	15,442 00	13,204 50
" cash fares for teams (gatemen)	30,518 14	37,735 60		44,007 10	41,072 74	35,796 62
" free ferries July 4.	1 00	1 00		1 00	1 00	1 00
Total from rates.	\$90,086 57	\$99,675 21		\$100,607 33	\$90,663 57	\$80,103 17
From rents	553 27	547 35		495 98	398 02	417 16
" old material sold	280 78	116 86			122 03	64 68
" other sources	1,230 88	*4,118 50		565 99	586 76	576 70
Total ordinary receipts	\$92,151 50	\$104,457 92		\$101,669 30	\$91,770 38	\$81,161 71
Office: Expenditures (Ordinary).						
Division engineer's salary (part)†	\$1,250 00	\$1,250 00		\$1,250 00	\$1,250 00	\$1,250 00
General foreman and eashier‡	4,700 38	4,786 00	\$65.75	4,800 00	4,968 59	5,013 70
Clerk	1,670 85	1,123 36	16 43	1,200 00	1,284 29	1,386 59
Retired veterans' pensions.	5,257 47	5,442 26	536 67	6,165 56	7,449 09	7,633 27
* Includes \$2,500 received from sale of ferrybout. "General Homoselt" and \$4.000 from sale of formboot "D. D. Kallo."	Hancock"	and 64 000 fac	drawn of forms		1	

Includes \$2,000 recepted from sale of terryboat, "General Hancock" and \$4,000 from sale of ferryboat "D. D. Kelly."

\*Remainder paid by Bridge Service.

\*Included in employees (wages) after February 1, 1916, in office books.

Comparison of Receipts, and Appropriations and Expenditures. -- Concluded.

	1920-21.	1921-22.	1921-22. Special Account.	1922-23.	1923-24.	1924-25.
Retired employees' pensions	2,345 64	2,160 00	180 00	2,258 00	3,240 00	2,921 00
Medical inspector (part)	83 33	83 33		83 34	83 34	83 33
Stationery	198 99	271 09	28 92	173 70	160 54	43 04
Printing	1,653 24	1,713 44	229 80	1,661 81	1,178 60	09 986
Telephones.	279 32	284 40	48 52	278 60	246 17	249 52
Advertising	60 15	104 45	12 10	98 55	33 00	38 50
Car fares	87 15	90.75	16 70	91 75	97 35	88 17
Postage	4 00	00 #	3 00	98 10	8 00	4 00
Premiums, surety companies	S 00	85 00	85 00	7 15	85 00	85 00
Total office expense.	\$17,075.52	\$17,398 68	\$1,221 89	\$18,073 72	\$20,083 97	\$19,852 72
Ferrybouts and landings:						
Employees (wages) §	8278,218 04	\$287,056 64	\$3,636.28	\$292,612 87	\$291,878 59	\$315,339 26
Fuel	130,594 17	81,725 66		89,882 09	92,904 36	75,278 43
Teaning, weighing coal, etc	3,937 52	3,538 17	890 61	2,703 87	2,986 03	3,296 97
Supplies	9,992 80	11,480 09	1,525 03	13,066 28	15,567 00	22,490 54
Cas	2,466 80	1,301 87	110 43	1,005 89	1,007 43	752 33
Off	2,313 66	2,450 00	376 03	2,230 73	1,769 82	2,543 80
Electric light.	3,127 83	3,171 49	638 97	3,790 49	4,154 60	4,973 19
Towing teams by electric motors	352 96	266 65	49 58	120 31	166 13	604 57
Repairs of boats	85,796 80	57,133 95	7,429 84	36,479 53	50,977 87	51,230 02

Repairs of buildings, piers and drops	41,607 73	24,599 46	4,590 63	33,817 11	13,908 12	24,814 05
Furnishings	320 26	302 98	02 6	08 829	255 50	256 00
Other expenditures *	1,950 45	3,410 71	1,004 42	2,630 48	3,025 36	2,095 58
Total	\$574,754 54	\$496,836 35	\$21,483 21	\$497,091 70	\$498,684 78	\$523,527 46
Expendituels from Special Appropriations.						
East B ston Ferry, improvements, efc	156,600 71	582,783 16		7,414 79	165,179 21	202,726 78
Ferryboats, repairs, etc	24,544 32	2,013 25		172 10	172 10	
Terryboat "Noddle Island"	59,676 62	98,754 21				8,290 30
Ferry improvements, etc					79,814 01	63,984 60
Total expenditures, regular and special	\$815,576 19	\$1,180,386 97	821,483 21	\$504,678 59	\$743,850 10	\$798,529 14
Balanees in treasury unexpended	917,082 35	263,531 73		255,944 84	113,072 86	217,676 36
Appropriations.						
Regular annual appropriations	8492,607 43	\$501,856 57		8497,091 70	\$498,684.78	\$521,688 80
Trunsfers from other sources †	82,901 97	3,106 95			1 22,293 34	1,838 66
East Boston improvements, etc	1,000,000 00					\$ 295,000 00
Ferryboat "Noddle Island"	160,000 00					46,721 13
Ferry improvements, etc	3				2 S1,002 23	\$ 77,884 05
	\$1,735,509 40	\$504,963 52		\$497,091 70	\$601,980 35	\$903,132 64

<sup>\*</sup> Includes repairs of coal carts, analysis of coal, medical attendance, report of coal expert, photographs, expressage, expert's services, derrick hire, gas for heating purposes and caps for officers.

Pruprase and cupropriations for Bridge and Ferry Division applied to "Ferry Services" and transfers from other appropriations.

Transferred from other appropriations, 22,233,34.

Appropriation from the appropriations, 22,233,34.

Appropriation from the appropriations, 25,24,000.

Appropriation from the appropriations, 85,72,000.

Transferred from other appropriations, 85,72,123.

Appropriation from the appropriations, 85,72,123.

Appropriation from twee, 260,000.

Transferred from other appropriations, 86,72,123.

Total Expenditures Upon Ferries Since 18	58-59.	
Expenditures for avenues, paving, interest, etc.,		
previous to the purchase of the ferries by the City	\$444,101	
Purchase of the ferries April, 1870	276,375	00
Expenditures for ferryboats since April, 1870.	1,642,202	91
Expenditures for new buildings, piers, drops, etc.,	607,523	
Expenditures for tools and fixtures (prior to	14.770	
1910)	14,752	46
1887	5,562	52
Expenditures for land from Battery Wharf in 1893	10,000	00
Total expenditures on capital account .	\$3,000,517	83
Expenditures for repairs of all kinds	2,420,706	
Expenditures for fuel	2,466,506	
Expenditures for salaries and wages	8,458,845	
Expenditures for all other sources	2,475,841	13
•	\$18,822,417	
•		
Total Receipts from Ferries 1858-59		
Receipts from rents, etc., previous to purchase of		
ferries	\$29,588	56
ferries	7,733,434	55
Receipts from rents since purchase of ferries	70,291	
Receipts from sale of ferryboats	152,567	44
	31,094	
Receipts from all other sources, per ferry books, . Receipts from all other sources, additional, per	31,094	20
City Auditor	30,734	85
Total receipts from all sources	\$8,047,710	26
Less amount with tollmen as capital	200	00
Less amount with tonnien as capitar	200	
Total receipts, auditor's reports	\$8,047,510	86
REGULAR ANNUAL (ORDINARY) AND SPECIAL A (EXTRAORDINARY) OF THE FERRY SERVICE ENDING JANUARY 31, 1925.	PPROPRIATION FOR THE YE	ONS EAR
Appropriations (regular) for the year ending		
January 31, 1925	\$521,688	80
Transferred from Sanitary Service	7,865	
and a summer of the second sec		
	\$529,554	51
${\bf Transferred\ to\ Ferry\ Improvements, etc}  .  .$	6,027	05
	\$523,527	46
Amount of expenditures (regular) for the year .	\$523,527	46
on penalon (regality for the year.		

### SPECIAL APPROPRIATIONS.

### EAST BOSTON FERRY IMPROVEMENTS, ETC.

Unexpended balance, February Loan inside debt limit Transfers to appropriation .			:	:			\$110,315 47 275,000 00 20,000 00
Expenditures for year 1924-25							\$405,315 47 202,726 78
Unexpended balance, Januar	ry 31	, 192	2.5				\$202,588 69
Expenditures for year made up	as f	ollov	vs:				
Labor, Ferry Service employ	rees						\$1,481 20
Labor, Bridge Service emplo							5,029 71
Labor, Transit Department	empl	ovce	s				297 00
Travel expense				Ċ			170 85
Travel expense	·						173 61
Lumber							52 50
Analysis of paint							50 00
Canopy supports							39 58
Gates	•						260 00
Miscellaneous construction	work						1,694 45
Labor and materials and pla			enetin	or r	ila fanda	r ot	1,004 40
South Ferry	ine co	Jus (1	uctin	8 1	me rende		995 74
Amount paid to J. Edward O	oden	Inc	und	or			220 14
contract for two sets of ga							
accompanying machinery	for S	outh	Form	11.1	\$236,912	00	
Less deduction for electric c			ren.	у,	171		
Less deduction for electric c	urren	t			171	2743	
					\$236,740	0.5	
Loss amount paid in 1002							
Less amount paid in 1923					129,909	90	106,830 55
Amount paid to W. H. Ellis under contract for ferry Ferry, East Boston, cost Less amount paid in 1923	bric	lges, rk	Sou	y, th	\$20,046 16,641		
1 11 D B G							3,405 88
Amount paid to Rendle Sto- tion Company, under con tions for ferry bridges for S	tract	for f	found	a-			
pleted,) cost of work to d					\$30,856	98	
Less 7½ per cent retained				Ċ	2,314		
Debb v 2 per cent retained					2,011		28,542 71
Amount paid to J. Edwa under contract for two ele bridges with gallow fran panying machinery (unfi work to date Less 15 per cent retained	etrica nes a nishe	il op ind	eratii accor cost	ng n- of	\$63,180 9,477		53,703 00
							\$202,726 78
Ferryboa	r "	Von	DIF	Te	TAND "		
				10	DAND.		
Unexpended balance February Transferred from Sanitary Ser			•				\$1,569 17 6,721 13
Expenditures for year 1924-25							\$8,290 30
							\$8,290 30
							\$1,200 00

Execution of court in favor of Richard T.	31,290 30 7,000 00	\$8,290 30
Ferry Improvements, et	C.	
Unexpended balance, February 1, 1924		\$1,188 22 60,000 00 17,884 05
Expenditures for year 1924-25		\$79,072 27 63,984 60
Unexpended balance, January 31, 1925		\$15,087 67
Expenditures for year made up as follows: Advertising. Car fares Photographs Channel gutters furnished and set Edgestone set, artificial stone sidewalks built, etc Repaired head of centre pier, South Ferry, Bostor Sheathing torn off and piles driven, South pier, Eas side Repairs to drops General repiars on drops, piers, etc Amount paid to Murray Engineering Company ut tract for repairs to pontoons Amount paid to Atlantic Works, repairing hull of ferryboat "Lieutenant Flaherty," cost of work to date (unfinished) Less 15 per cent retained	n side . st Boston	\$19 30 62 00 20 00 479 50 1,818 00 1,360 03 2,146 34 8,163 76 1,566 72 2,875 00
Less 7½ per cent retained  Amount paid to W. H. Ellis & Son Company, under contract for rebuilding piers at North Ferry (unfinished), cost of work to	32,656 13 2,449 21 15,420 57 2,313 09	2,159 55 30,206 92 13,107 48
		\$63,984 60

# Receipts at Each Ferry. North Ferry.

FROM TOLLMEN.	Foot Passengers.	From Tickets.	Totals.
Boston side	\$9,016 97	\$4,335 50	\$13,352 <b>4</b> 7
East Boston side	8,640 28	4,714 00	13,354 28
Totals	\$17,657 25	\$9,049 50	\$26,706 75

PURITO	WORKS	DEPARTMENT.

0	١

1 cent	\$567 89 25,367 73	25,935 62 \$52,642 37
outh Ferry.	25,367 73	<del></del>
Foot		\$52,642 37
Foot		
Foot		
Passengers.	From Tickets.	Totals.
\$5,114 86	\$2,692 00	\$7,806 86
4,575 80	2,063 00	6,638 80
\$9,690 66	\$4,755 00	\$14,445 66
	\$296 09 10,490 85	\$14,445 66 10,786 94
		\$25,232 60
ffice ries July 4, 1	1924	\$77,874 97 2,227 20 1 00
		\$80,103 17
		417 16
		417 16 400 00
ooths .		417 16 400 00 48 00
	4,575 80 \$9,690 66 1 cent .	4,575 80 2,063 00 \$9,690 66 \$4,755 00 1 cent . \$296 09 10,490 85

One-horse teams, light motor trucks, pleasure carriages and runabouts, Two-horse pleasure carriages, hacks	282,189	132,571
and touring cars	260,331	78,666
Two-horse teams and motor trucks,	194,903	81,554
Three-horse teams and heavy motor		
trucks	421	815
Four-horse teams	1,318	1,067
Handcarts, etc.	2,277	821
Drag wheels	3	1
Free teams, hacks and motor ve-		
hicles	20,067	10,005
	761,509	305,500

### Motor Vehicle Traffic (Reports of Captains).

February 1, 1924, to January 31, 1925.

	North Ferry.	South Ferry.	Total.	
Runabouts	1 93,133	² 33,155	126,288	
Touring cars	³ 296,339	4 86,625	382,964	
Trucks	5 202,938	6 90,717	293,655	
Totals	592,410	210,497	802,907	
1 Includes 1,514 free. 2 Includes 7 4 Includes 3,387 free. 5 Includes 7		<sup>3</sup> Includes 9,130 free. <sup>6</sup> Includes 3,270 free.		
Total paying foot passengers .			2,844,317	
Total free foot passengers .			1,584	
Total foot passengers carried	i		2,845,901	
Total paying teams Total free teams			1,042,564 27,988	
Total teams carried			1,070,552	

Total Travel on Both Ferries from February 1, 1919, to January 31, 1925.

	1919-20.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
One-horse teams*	494,372	437,254	468,831	502,407	445,839	406,336
Two-horse teams †	330,023	314,109	309,529	341,257	314,672	291,710
Three-horse teams	4,372	4,105	1,605	1,850	1,548	1,249
Four-horse teams	4,542	3,774	4,311	6,061	4,816	2,105
Two-horse carriages, hacks ‡	173,821	226,742	299,791	368,711	366,846	338,031
Two-cent tolls, handcarts, etc	4,935	5,224	4,122	4,333	4,409	3,098
Drag wheels, etc	6	1		2	5	35
Paid teams at both ferries	1,012,071	991,209	1,088,189	1,224,621	1,138,135	1,042,564
Free teams at both ferries	17,447	16,650	22,458	29,349	26,197	27,988
Total teams at both ferries	1,029,518	1,007,859	1,110,647	1,253,970	1,164,332	1,070,552
Foot passengers paid	4,424,773	3,987,785	4,390,781	3,711,491	3,244,419	2,844,317
Foot passengers free	4,500	3,305	4,479	1,865	1,650	1,584
Total foot passengers	4,429,273	3,991,090	4,395,260	3,713,356	3,246,089	2,845,901

Note.— Team travel includes automobiles.

<sup>\*</sup> Includes one-seat automobiles. | † Includes motor trucks. | ‡ Includes two-seat automobiles.

### APPENDIX C.

## REPORT OF THE DIVISION ENGINEER OF THE HIGHWAY DIVISION.

Boston, February 1, 1925.

Mr. Joseph A. Rourke.

Commissioner of Public Works.

Dear Sir,— I submit herewith a statement of the activities and expenditures of the Paving and Lighting Services for the year ending January 31, 1925.

The maintenance expenditures of the Highway Divi-

sion for the year were as follows:

Lighting Service.				\$830,726 90
Paving Service .				1,451,541 38

\$2,282,268 28

The department forces, in addition to patching and maintaining roadways, did considerable construction work in scarifying and preparing roadways for asphalt top to be installed by the patching contractor, in building bituminous macadam roadways and in relaying granite blocks with grouted joints.

Although the past winter was comparatively free from snow, the Champion blade plows attached to 5-ton motor trucks operated by the city and by contractors made a new record in keeping the main traffic arteries

in first-class condition for travel.

A portable stone crusher was installed at the Massachusetts avenue lot, where vast quantities of paving blocks are stored, and all blocks not suitable for further use were converted into commercial broken stone for use in the City Proper and in other districts as required.

Two asphalt plants, one in Dorchester and one in Brighton, operated by the department forces, have been producing hot mix for the several districts as the occasion

required.

The boilers of the steam road rollers are inspected each year by the state boiler inspector and, as a result of this inspection, there are four condemned rollers in the junk pile. Three of these rollers were replaced by one Buffalo-Springfield steam roller and two Acme gasolene rollers, making our roller equipment at present two gasolene and eight steam rollers. The older rollers were overhauled and repaired and made ready for the season's work.

The rolling stock is gradually changing from horse drawn to motor driven vehicles. The present equipment includes:

One 5-ton Pierce Arrow.

One 3-ton G. M. C.

Eighteen Reo trucks.

Ten Ford trucks.

Ten Ford sedans for foremen.

One Buick Touring, for Division Engineer. One Buick Touring, for Chief Inspector.

It is recommended that nine Reo trucks, one Ford runabout, one snow loader, one wrecking car with derrick, and one stone loader be purchased this coming year, with the intention of further motorizing the service. It is expected, with the addition of new motor trucks, the use of carts and horses, of which there are 80, will be reduced to a minimum.

Tools and equipment have been kept in good condition by renewals and replacements except the carts, both single and double, which have been repaired

extensively.

### Construction.

Construction work was started early in the year. Twenty-two streets were rebuilt under repair and construction contracts in which 64,000 square yards of granite blocks were recut and relaid in a cement concrete base, and 110,000 square yards of Warrenite bitulithic pavement and 12,000 square yards of reinforced concrete roadways were laid.

A departure from bituminous surfaces to concrete was made this season when about 40,000 square yards of reinforced concrete, seven inches deep, were laid on twenty-two streets under the "Highways, Making of" appropriation. Sixty-five thousand square feet of artificial stone sidewalks were laid under a contract com-

prising a group of sixteen streets.

A flight of concrete steps with pipe rails was constructed in Northwood street, connecting Leyden with Gladstone street, East Boston. Some of the important contracts completed are Blue Hill avenue, west side, from Canterbury street to the Neponset river, surfaced with Warrenite bitulithic on a Telford base, thus completing the two roadways to Milton. Shawmut avenue, Roxbury street to the Boston & Albany Railroad bridge was rebuilt with Warrenite bitulithic on a 6-inch concrete base and the brick walks replaced with artificial stone.

Border street, East Boston, from Sumner street to Central square, was paved with new granite blocks on a 6-inch concrete base and new artificial stone walks were laid. Grove street, from Washington street to Centre street, West Roxbury, was constructed with Warrenite bitulithic on a 6-inch concrete base.

Very truly yours,

James H. Sullivan, Division Engineer.

### HIGHWAY DIVISION - LIGHTING SERVICE.

### FINANCIAL STATEMENT.

Expenditures February 1, 1924, to January 31, 1925.

Expenditures reordary 1, 1924,	, to Juna	ug	01, 1020.
Electric Lighting:			
Arc.			
Edison Electric Illuminating	0400 000	00	
Company	\$438,886	80	
Company			
Company	24,672	13	
			\$463,558 93
Incandescen	t		
Edison Electric Illuminating	200 111		
Company	\$90,111	94	
Charlestown Gas and Electric			
Company	17	95	
Company			
Company fire alarm lamps .	200	56	
company me amin amps .			90,330 45
Cas Lighting.			50,550 10
Gas Lighting:			
Boston Consolidated Gas Com-			
pany	\$236,317	99	
Charlestown Gas and Electric			
Company	12,663	86	
Charlestown Gas and Electric	,		
Company fire alarm lamps .	468	6.1	
Company me alarm lamps .	100	04	249,450 49
0.1			240,400 40
Salaries and Wages:			
Division Engineer (part of) .	\$1,250	00	
Clerk	2,105	75	
Stenographer and clerk	1,486	98	
Lighting inspector	1,800	00	
Pensions	181	00	
Tensions	101	00	6,823 73
4 ( 7.7 77			0,020 10
$Automobile\ Expense:$			
Gasolene, oil, etc	\$168	51	
Registration	10	00	
Shoes and tubes, new and repairs,	41	32	
Supplies		56	
Repairs	51		
	144		
Storage	144	00	421 81
			421 01
Campied former			\$810,585 41
Carried forward			\$610,000 41

$\sim$ Brought forward.						\$810,585	41
Construction:							
Installing lamps and	post	ts a	nd				
removing and reloca	ting	lamj	os,				
posts, etc						4,820	00
$Of fice\ Expenses:$							
Printing				\$63	30		
Postage				30	00		
Stationery and periodic	cals			94	14		
						187	44
Miscellaneous;							
Travel expenses (car fa	res)			\$15	00		
Typewriter repairs an	nd í	nspe					
tion				12	00		
Gas lamp posts .				1,944	00		
Globes and shade fram	es				55		
Typewriting				60	34		
Advertising				30	00		
C.				-		2,089	89
Installing boulevard la	mps	on:					
Essex street .	. *			\$1,767	10		
Bowdoin street .				604	90		
Columbus park .				5,207	41		
Columbia road .				809	80		
Blue Hill avenue				1,954	66		
Washington street				992	45		
Shawmut avenue				2,276	85		
						13,613	17
Total						\$831,295	0.1
1 otat   . Less rebate on installati						ъроот,290 569	
Less repare on instanati	ons		٠			509	UL
Total						\$830,726	90
							_
Revenue Cred	ited i	to Ge	neral	Revenu	e.		
Lighting Boston and Cam	brid	ge I	Bridge	es .		\$2,630	89
Dames 1						336	
						\$2,966	89

The following is a statement of the work done during the year under the supervision of the Division Engineer.

Arc lamps have been provided for skating and tobogganing during the season at Franklin Field, Franklin Park and Wood Island Park the same as in years past.

Boulevard type white way lamps have been installed in Province street, School street to Bromfield street, Essex street, Washington street to Atlantic avenue, Shawmut avenue, Tremont street to Roxbury street, Washington street, Stuart street to Hollis street, Washington street, Castle street to Dover street, Columbus Park and Strandway, Massachusetts avenue, Southampton street to Shirley street, Bowdoin street, Quincy street to Olney street, Blue Hill avenue, Fremont street to Mattapan square. Thus throughout the city the lighting system has been increased, including the boulevard type and new magnetite arcs, by the installation of 162 lamps and 75 incandescents and 14 gas lamps at various locations. The usual amount of regulation and relocation of lamps and services made necessary by street construction, the building of sewers and other works has been conducted throughout the year.

Petitions and requests for new lamps received from citizens and from officials, also complaints in relation to the lighting service have been investigated and attended to. All streets in the underground district prescribed for the year have been inspected and the necessary

changes and additions have been made.

The number of miles of streets and wavs lighted by this service is as follows:

Public streets and	alle	ys							615.35
Public footways									1.35
Park roads, footw	ays	and	priva	ite s	treet	s an	d alle	ys	
approximately	ì							٠.	309.10
									925.80

During the year the following defects were reported by the police: Arc lamps 8,321, incandescent 3,462 and

gas lamps 3,081.

There are in operation 20,519 arc, incandescent and gas lamps divided as follows: 5,737 arcs, 4,913 incandescents and 9,729 single mantle gas lamps and 140 fire alarm gas lamps.

Lamps Installed.	
	67
Tungsten lamps	95
Single mantle gas lamps	
name of the second of the seco	— 345
Lamps Discontinued.	
Titagiotito are mining.	5
	54
Single mantle gas lamps	69
	2
Spot lights, police incandescent lamps	12
	— 1 <del>4</del> 2
Net increase	203

The following table shows the work of setting, repairing and altering lamp-posts, brackets, services, etc.:

Shades.	21	t. Rem. 10	-1		
<u>2</u>		Inst. ]		:	:
Set in Place of Brackets.	က				
Recon- nected. Cleared	276				
	132				
Relaid.	21	m	e)	:	:
Laid.	83	:			:
Repaired. Laid.	13			:	
Shifted to Straight. Recet to Unused New ened. Grade. Removed.	63				9
Reset to Line and Grade.	36	18	13		
Straight- ened.	25	1			
Shifted to New Location.	36	12	O1	C)	
Set in Sl Place of Broken L Posts.	132	г			
Set for Lamps.	83	167	14	81	:
	Gas posts	Arc posts	Tungsten posts	Tungsten fixtures	Gas brackets

Lamps of various types in use on January 1, 1925, as compared with the number in use on January 1, 1924:

	January, 1925.	January, 1924.	Increase or Decrease.
Single mantle gas.	9,727	9,713	14
Fire alarm gas	140	142	-2
Magnetite series	5,737	5,575	162
Magnetite multiple *		* 23	
Tungsten incandescents	4,913	† 4,849	41
Spot light traffic police		12	-12
Totals	20,517	20,314	203

### STREET LAMP OUTAGES.

Rebates for lamps not lighted on schedule time or out before the proper time have been received on the various monthly bills as follows:

DATE.	Incan- descent.	Gas.	Arc.
February, 1924	\$7.61	\$114.21	\$189.27
March	63.70	57.48	380.63
April	31.16	9.09	144.95
May	4.10	12.85	45.50
June	5.02	3.86	34.77
July	1.63	5.62	41.32
August		6.29	
September	3.15	28.00	98.27
October	3.52	21.32	62.53
November	2.53	22.98	135.18
December	1.54	27.24	140.53
January, 1925	3.20	133.89	173.52
Totals	\$127.16	\$442.93	\$1,446.47

<sup>\*</sup> Changed to 1,100 candle power incandescent.
† Thirty-four 60-candle power incandescent transferred to Metropolitan District Commission, January 1, 1925.

### GAS LIGHTING.

There are 9,727 single mantle gas lamps and 140

single mantle fire alarm gas lamps.

The city furnishes the lamp-posts and the Gas Company sets the lamp-posts and provides service pipes laid from the gas mains to the top of the posts; maintains all such pipes and posts in good condition and repair; furnishes gas, lanterns, burners and all other necessary equipment including labor for lighting and care.

The lighting service provides for the gas, lighting and care of the fire alarm signal lamps and the Fire Department for the lanterns, posts, setting and repair-

ing of same.

ias Lamps.

Ілантив Сомрваст.	Gas District.	Number of Lamps.	Type of Lamp.	Rated Candle Power.	Gas Consumed per Hour.	Hours of Burning per Annum.	Cost of Gas per Lamp per Annum.	Cost per Lamp for Lighting and Care per Annum.	Total Cost per Lamp to April 1, 1924.	Total Cost per Lamp from April 1, 1924.
Boston Consolidated Gas Company.	South Boston, East Boston, Dorchester, Roxbury, Brighton, West	9,227	Single mantle. Single mantle. F. A.	99 9	3 feet. 3 feet.	000'#	\$11 B	\$15 15 20 15 20	\$21.00 12.00 0.00 0.00 0.00	
Charlestown Gas and Charlestown Electric Company.	Charlestown	500 119	Single mantle.	999	3 feet.	000,4	88			2 8 8 2 8 8

### Electric Lighting.

There are in use 5,737 magnetite are lamps, 3,447 40 candle power, 1,374 60 candle power, 33 100 candle power, 25 200 candle power, 11 700 candle power tungsten lamps, and 23 1,100 tungsten The electric companies provide and set the lamp-posts, except the lamp-posts for incandescent lamps supplied from underground circuits, furnish lamps, overhead wires, underground conduits, eables and connections and all other necessary equipments and maintain them in good condition and

The lighting rates for electric lamps are in accordance with the following table:

DESCRIPTION OF LAMPS.	Fixed Costs per Lamp per Year to December 6, 1924.	Running Costs per Hour.	Fixed Costs per Lamp per Year from Decem- ber 7, 1924.	Running Costs per Hour.
40 candle power incandescent lamp, series	\$10 80	.18 cent	\$10 00	.22 cent
40 candle power incandescent lamp, multiple		.25 cent	10 80	.26 cent
60 candle power incandescent lamp, series	12 00	.2 cent	10 80	.26 cent
60 candle power incandescent lamp, multiple		.3 cent	12 00	.30 cent
100 candle power incandescent lamp, series	18 00	.4 cent	13 50	.36 cent
100 candle power incandescent lamp, multiple		.5 cent	13 50	.36 cent
200 candle power incandescent lamp, series.	25 00	.1 cent	18 00	.60 cent
700 candle power incandescent lamp, multiple	30 00	1.5 cent	32 00	1.3 cent
1,100 candle power incandescent lamp, multiple	36 00	1.5 cent	34 00	1.4 cent

A discount of 10 per cent is made on the above rates for lamps in all sections of the city. A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is made for outages.

Arc Lamps.

							Cost of Lam	COST OF LAMP PER ANNUM.
Сомраки.	Number of Lamps.	Connected.	Type of Lamps.	Type of Circuit.	Terminal.	Lighting Hours.	To Deem- ber 6, 1924.	To December 6, 1924. ber 7, 1924.
	1,785	Overhead.	Magnetite.	Magnetite. Series 6.6 amp. D. C.	528	3,838	\$79 60	\$93 42
Edison Electric Illuminating Company,	3,647	Underground.	Magnetite.	Underground. Magnetite. Series 6.6 amp. D. C.	528	3,828	29 60	93 42
	534	Overhead.	Magnetite.	Magnetite.   Series 6.6 amp. D. C.	528	3,828	09 62	93 42
Charlestown Gas and Electric Company,	8	Underground.	Magnetite.	Underground. Magnetite. Series 6.6 amp. D. C.	528	3,828	29 60	93 42

Note.— In the above the candle power figures are the official designations. are here eliminated.

The wattage figures

Incandescent Lamps.

				:		COST OF LAMP PER ANNUM	PER ANNUM.
Company.	Number of Lamps.	Type of Lamps.	Type of Circuits.	Candle Power.	Lighting Hours.	To December 6, 1924.	From December 7, 1924.
	2,016	Типдя(сп.	Series 6.6 amp. D. C.	Q <del>‡</del>	3,828	815 92	\$18.42
	842	Tungsten.	Series 6.6 nmp. D. C.	99	3,828	17 69	20 75
	=	Тиндя(сп.	Series 6.6 amp. D. C.	901	3,828	86 98	27 28
_	021-1	Tungsten.	Multiple D. C.	Ξ	3,828	18 33	20 75
Edison Electric Illuminating Company	5333	Tungsten.	Multiple D. C	99	3,828	11 12	23 48
	81	Tungsten.	Multiple D. C.	901	3,828	33 43	27.28
_	ş	Tungsten.	Series 6.6 amp. D. C.	300	3,828	63 28	40 97
	=	Tungsten.	Multiple D. C.	200	3,828	80 18	81 76
	8	Tungsten.	Multiple D. C.	1,100	3,828	87 52	87 59
Charlestown (ins and Electric Company	Ξ	Tungsten.	Series 6.6 D. C.	ş	858.E	15 92	18 42
The second secon				The state of the s			

Note.— In the above the candle power figures are the official designations. The wattage figures are here eliminated.

## HIGHWAY DIVISION — PAVING SERVICE. Work Done by Contract.

		old.	New.	Total, Old and New.
Edgestone act		59,940 linear feet.	37,134 linear feet.	97,374 linear feet.
Crushed stone foundation for edgestone			8,166	s, 166
Concrete base laid		15,296 square yards.	121,219 square yards	136,545 square yards.
(franite block paving laid, gravel base, gravel joints		a 25.85.1	1, 173	
3 New granite block paving laid, asphalt joints			. , , , , , , , , , , , , , , , , , , ,	
4 New granite block paving laid, grout joints			N,717	8,717 *
8 Reent granite block paving laid, grout joints			55,727	
*Second-hand granite block paving laid, grout joints		5,548 square yards.	11,663	17,211 " "
				19,217 " "
*Bitulithic pavement laid				
• ('onerete pavement laid			i : : : : : : : : : : : : : : : : : : :	31,155 "
a Wood block pavement hid.		(,230 square yards.	2,602	3,832
u Bitaminous patching, full death asphalt				33,557 "
Bituminous patching, full depth bituminous concrete	:	16001		16,001
Bitumonous patching murface		7,741 "		7,741
Bituminous surface patching extra binder		173 cubic yards.		173 cubic yards
"Artificial atone sidewalks faid.		6,209 square yards.	76,988 square yards.	83,197 square yards
And the second s	,			

Work Done by Contract.—Concluded.

	Old.	New.	Total, Old and New.
Brick sidewalks laid	6,296 square yards.	607 square yards.	6,903 square yards.
Crushed stone sidewalks laid		1,203 " "	1,203 " "
Steel reinforcement furnished		300,980 pounds.	300,980 pounds.
Earth exeavation		25,105 cubie yards.	25,105 cubic yards.
Rock exeavation.		1,715 " "	1,715 " "
Filling furnished		19,874 " "	" " 19,874
Crushed stone furnished		5,683 tons.	5,683 tons.
Loam furnished.		151 cubic yards.	151 cubie yards.
Loam graded and seeded		3,260 square yards.	3,260 square yards.
Old conerete base removed		1,463 " "	1,463 " "
Covers, catch-basins Bradley heads set		509	509
Wood fence.		230 linear feet.	230 linear feet.
Iron fence.		387 "	387 " "
Ground water drain.		" " " 1,969	1,969
Dry wells.		4	4
Cinders furnished		6,989 square yards.	6,989 square yards.
Concrete steps built		190 linear feet.	190 linear feet.

Explanation of Numerals on Preceding Pages.

Concrete base laid 4 inches thick. Concrete base laid 6 inches thick. Total concrete base laid.	3.943 square yards. 132,602	136,545 square yards.
*Second-hand granite block, formerly gravel roadway.  Second-hand granite block, formerly manadam roadway.  Second-hand granite block, formerly cobbig gutters.  Total second-hand granite block paving laid on gravel base with gravel joints.	613 square yards. 1.662 " " "	2,473 square yards.
<sup>3</sup> New granite block paving, asphalt joints, formerly granite block paving, gravel joints		820 square yards.
Wew granite block paving, grout joints, formerly granite block paving, gravel joints		8,717 square yards.
Recut granite block paving laid with grout joints, formerly gravel rocdway. Retut granite block pavin ald with grout joints, formerly meachan roadway. Retut granite block paving laid with grout joints, formerly gravel joints. Retut granite block paving laid with grout joints, formerly gravel joints. Retut granite block paving laid with grout joints, formerly pitch joints. Retut granite block paving laid with grout joints lonerly grout joints.	1,666 square yards. 1,702 " " " 28,147 " " 14,980 " " "	55,727 square yards.
Second-land granite blook paving laid with grout joints, formerly gravel roadway. Second-land granite blook paving laid with grout joints, formerly macadam roadway. Second-land granite blook paving laid with grout joints formerly gravel joints. Second-land granite blook paving laid with grout joints, formerly gravel joints. Total second-land granite blook paving laid grout joints, formerly gravel joints.	2,087 square yards. 985 " " " 6,364 " " " 2,227 " "	11,663 square yards.
Formerly gravel roadway. Formerly macadam roadway Formerly bitumious macadam roadway. Total asphalt pavement.	2,796 square yards. 4,332 12,089 " "	19,217 square yards.

Explanation of Numerals on Preceding Pages.—Concluded.

Formerly gravel roadway  Formerly metallor nodway  Formerly metallor roadway  Formerly bituminous metallor  Formerly paint metal of the formerly bitumine metallor  Formerly paint for when are longer  Total printing parement	19,477 square yards. 8,606 42,860 " " 19,609 "	110,552 square yards.
Pformerly gravel roadway. Formerly macadam roadway. Total concrete roadway.	39,335 square yards. 11,920	51,155 aquare yards.
* Formerly granite block, pitch joints		2,602 square yards
In Formerly macadam readway. Formerly wood block. Formerly gamle block to the property of the property of the property gamle block.	1,243 square yards. 1,077 " " " " 2,286 " " "	14,606 square yards.
1 I said with foundation.	13,480 square yards. 69,717	83,197 square yards.

Work Done by Paving Service Forces, During 1924-25 (Fiscal Year).

	Old.	New.	Total.
Edgestone set	32,577 linear feet.	4,078 linear fect.	36,655 linear feet.
Concrete base laid		4,819 square yards.	4,819 square yards.
Roadway, granite block, gravel joints	44,747 square y. rds.		44,776 " "
Roadway, granite block, grout joints	21,996 " "	" " " 11,759	33,755 "
Gutter, granite block, gravel joints.	9,665	1,224 "	10,889
Gutter, granite block, grout joints.		: :	119 " "
Flagging crosswalk, gravel joints	1,518 " "	33	1,551 "
Roadway, wood block, sand joints	5,562 " "		5,562 " "
Asphalt penetration macadam surface placed	5,870 " "	43,143 square yards.	49,013 " "
Macadam surface patched	299,163 " "		299,163 " "
Asphalt blanket coat	153,097 "		
Briek sidewalks laid	. " " 29,748	412 square yards.	
Artificial stone sidewalks laid	6,765 "	1,351 " "	8,116 " "
Sidewalk excavating, no sidewalk laid		. 530	230 "
Roadway excavating, no roadway constructed			
Roadway exeavating, roadway changed		425 cubic yards.	425 cubic yards.
Gravel or crushed stone sidewalks surfaced	160,962 square yards.		160,962 square yards
Grading (no pavement laid)		6,018 cubic yards.	6,018 *
Brick block pavement laid	1,849 square yards.		1,849 "
Concrete roadway laid.	* 1,400 " "		1,400 "
Rubber pavement laid		60 square vards.	. 09

\* Patched with asphalt cement and sand.

### FINANCIAL STATEMENT, PAVING SERVICE. Maintenance. Appropriation . \$1,502,997 89 \$15,869 17 Transferred to Lighting Service . Transferred to Overseeing of the Public Welfare Department, Central Office 35,587 34 51.456 51 \$1,451,541 38 Expended during the year . . . . 1,451,541 38 Special Appropriations. Highways, making of: Amount expended during the year . . . \$401,906 64 Granolithic Sidewalks. \$14,357 41 Balance February 1, 1924 Appropriation from taxes 50,000 00 \$64.357 41 Expended during the year 63.235 61Balance January 31, 1925. \$1.121 80 RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT. Balance February 1, 1924 \$83,388 27 950,000 00 Appropriation from taxes \$1,033,388 27 1,004,427 46 Expended during the year . . . \$28,960 81 STREET IMPROVEMENTS. Balance February 1, 1924 \$38,980 62 Expended during the year . . 34,699 93

\$4.280 69

Balance January 31, 1925 .

GARAGE, ALE	BANY	STR	EET.			
Balance February 1, 1924 . Transferred from Beacon Street					\$83,314 10,000	
Expended during the year .					\$93,314 88,544	
Balance January 31, 1925 .					\$4,769	99
Cambridge Street					T.	
Expended during the year .	٠		٠	٠	\$5,965	10
Stuart	STRE	ET.				

Public Works Department. 109

Total . .

### PAVING SERVICE.

### SUMMARY OF EXPENDITURES.

Paving Service Highways, making of							
					. 9	31,451,541	38
Highways, making of						401,906	64
Granolithic sidewalks						63,235	61
Reconstructing and repair	iring s	streets	by co	ntra	.ct.	1.004,427	
Street improvements Garage, Albany street						34,699	
Garage, Albany street						88,544	
Cambridge street and Co	ourt s	treet				5,965	10
Stuart street						627	
Total					. §	3,050,948	14
	Inc	COME.					
1924, to January 31	. 192						
Revenue.							
Revenue.  Edgestone and sidewalk	assess	ments				\$48,457	22
Revenue.  Edgestone and sidewalk Permits	assess	sments				\$48,457 33,766	22 97
Revenue.  Edgestone and sidewalk Permits Services of inspector	assess	sments	•			\$48,457 33,766 1,876	22 97 00
Revenue.  Edgestone and sidewalk Permits	assess	sments	•			\$48,457 33,766	22 97 00
Revenue.  Edgestone and sidewalk Permits Services of inspector Labor, material furnished	assess  d, etc.	sments				\$48,457 33,766 1,876	22 97 00 72
Revenue.  Edgestone and sidewalk Permits Services of inspector Labor, material furnished	assess d, etc.	sments				\$48,457 33,766 1,876 13,339 \$97,439	22 97 00 72 91
Revenue.  Edgestone and sidewalk Permits Services of inspector Labor, material furnished Total  Amount Paid Into the Edgestone and sidewalk	assess d, etc.	sments	SURY		· · ·	\$48,457 33,766 1,876 13,339 \$97,439 THE YEA \$38,518	22 97 00 72 91 AR.
Revenue.  Edgestone and sidewalk Permits Services of inspector Labor, material furnished Total  Amount Paid Into the Edgestone and sidewalk Permits	assess d, etc.	ements TREA	SURY		vrino	\$48,457 33,766 1,876 13,339 \$97,439 THE YEA \$38,518 33,320	22 97 00 72 91 AR. 78 47
Revenue.  Edgestone and sidewalk Permits Services of inspector Labor, material furnished Total  Amount Paid Into the Edgestone and sidewalk Permits	assess d, etc.	ements TREA	SURY		vrino	\$48,457 33,766 1,876 13,339 \$97,439 5 THE YEA \$38,518 33,320 1,995	22 97 00 72 91 47 00
Revenue.  Edgestone and sidewalk Permits Services of inspector Labor, material furnished Total  Amount Paid Into the Edgestone and sidewalk	assess d, etc.	ements TREA	SURY		vrino	\$48,457 33,766 1,876 13,339 \$97,439 THE YEA \$38,518 33,320	22 97 00 72 91 47 00

. \$87,104 03

Objects of Expenditures from the Various Appropriations, Classified by Districts, February 1, 1924, to January 31, 1925.

Districts.	Macadam Repairs.	Paved Street Repairs.	Removal of Snow.	Street Cleaning.	Edgestone and Sidewalk Repairs.	Street Work.	Schedule A, Miscellaneous.	Totals.
South Boston and Dorchester North	\$14,344.78	\$7,632 39	\$20,591.06	84,642 46	\$9,673 79	\$52,181 21		\$109,065 69
East Boston and Breed's Island	7,181 76	3,845 44	7,707 52	1,196 59	8† 812'6	112,918 66		142,568 45
Charlestown	5,610 10	3,907 96	88 086'6	5,162 85	7,428 49	65,915 33		98,005 61
Brighton	44,046 51	290 44	13,961 11	23,140 70	06 889'9	92,078 08		180,205 74
West Roxbury	56,392 50	691 54	21,825 74	26,804 48	10,110 64	224,080 24		339,905 14
Dorchester	20,003 75	3,016 00	14,655 11	11,493 93	23,839 49	59,423 52		132,431 80
Roxbury South and Jamaica Plain.	27,904 97	6,005 34	34,492 34	45,230 50	17,362 09	238,559 80		369,555 04
South End and Roxbury North	24,158 48	19,079 96	50,383 78	2,959 01	32,968 79	298,680 38		428,230 40
Ashmont	23,090 25	209 67	9,359 33	10,946 19	6,032 48	231,656 03		281,293 95
North and West Ends and Back Bay	06 S0F	4,882 46	56,102 50		5,256 57	153,796 79		220,447 22
Hyde Park	14,691 04		3,978 58	9,147 91	2 295 32	34,284 17		64 397 02
Miscellaneous						* 225,162 46	\$459,679 62	684,842 08
Totals	\$237,833 04	\$49,561.20	\$243,037 95	\$140,724 62	\$131,375 04	\$1,788,736 67	\$459,679 62	\$3,050,948, 14

\* New garage, \$88,762.68; artificial stone sidewalks repairs and rebates, \$16,027.12; asphalt repairs, \$120,372.66.

### SCHEDULE A.

### EXPENDITURES FOR FISCAL YEAR 1924-25.

Salary of division engineer (part of)	\$3,750	00
Salary of division engineer in charge (part of) .	750	
Salaries of office clerks and stenographers	7,671	97
Salaries of assistant engineers (office work)	8,321	90
Salaries of permit office clerks	10,430	03
Salaries of permit office inspectors	18,290	44
Salaries of engineering inspectors (office work) .	11,272	
Salaries of district inspectors	3,342	47
Salary of medical inspector (part of) .	366	66
Medical attendance on injured employees (out-		
$\operatorname{side}$ )	121	
Salary of general foreman Salary of chief veterinarian (part of)	2,921	
Salary of chief veterinarian (part of)	500	
Salary of inspector of horses	1,486	
Salary of constable and inspector Pensions paid to veterans (retired)	2,005	48
Pensions paid to veterans (retired)	7,870	25
Pensions paid to laborers (retired)	18,325	39
Compensation allowed injured employees	5,473	72
Vacations allowed laborers, mechanics, etc	35,169	47
Holidays, not including holidays charged to	,	
street accounts	79,671	24
Postage	277	46
Postage	4,110	60
Stationery	1,226	
Traveling expenses, carfares, etc.	904	83
Stationery	1,841	52
Stationery		
Postage 65 76		
Transit repairs 89 80		
Postage   65 76   Transit repairs   89 80   Transit and calculating machine   569 50   Miscellaneous   302 62		
Miscellaneous 302 62		
Supplies for laboratory	73	87
Artificial stone sidewalks, new, and repairs by		
department force (see reconstructing and		
repairing streets by contract and street im-		
provements)	30,033	84
Asphalt and bitulithic pavement repairs. Tem-	•	
porary repairs, labor, teaming, materials (see		
also, reconstructing and repairing streets by		
contract and street improvements)	12,616	40
Brick block repairs, labor, teaming and materials,	552	
Carried forward	\$269,378	98
	,	

Brought forward	\$269,378 9	
Wood block repairs, labor, teaming and materials,	11,984 3	5
Crosswalks repaired, not included elsewhere	1,630 13	$^2$
Fence repairs	1,630 13 7,209 23	3
Plankwalk repairs	1,845 7	$^2$
Edgestone, sidewalks and gutters (new) not in-		
cluded elsewhere	$9,315 \ 3$	5
75 ( 61 1 1 )	4,088 0	
Expense of stables, including drivers, feeders,	_,	
fodder, horseshoeing, repairs to harnesses,		
wagons, carts, etc		
Amount earned by department		
tooms 141 749 45		
teams	19,800 3	5
Electric lighting at yards and stables	1,200 9	4
Gas lighting at yards and stables	252 1	
Fuel for heating yards, buildings, offices and	202 1	O
	4,690 3	Λ
stables Electrical appliances, labor and materials, yards	4,000 0	v
and atables	31 6	7
and stables	169 3	
Rent of towers	37 6	
Rent of towels		
	$\begin{array}{c} 1,572 & 0 \\ 125 & 4 \end{array}$	
Ice Signs, making and putting up, etc.		
Signs, making and putting up, etc.	19,310 6	
Tools, hardware, etc., new, cost of repairing, etc.,	33,033 7	
Oil for lighting around defects, etc	1,164 0	U
Expenses of yards, including salaries of general		
foreman, foremen, clerks, yardmen, watch-	17 170 1	0
men, tool wagons, etc	47,176 4	:0
	11 700 0	
etc	11,732 3	
Sanding icy and slippery streets	4,721 2	
Repairing culverts and building new culverts.	8 9	
Chests for central office, making of Premium on surety bonds Traverse street subway Repairs to and inspection of typewriters	133 7	
Transport of the street bonds	9 0	
Danaina de la contraction de l	1,276 5	
Repairs to and inspection of typewriters	67 0	
Trimming and removing trees	925 0	
Painting trainc lines	1,243 5	
Trimming and removing trees Painting traffic lines Marking catch-basin locations Repairs to snow dumps Miscellaneous	412 5	
Repairs to snow dumps	76 8	
	97 0	4
Work done and material furnished individuals,	6 120 0	
corporations, etc	6,138 2	
Photographs	26 0	
Aindreas Fact Dart	120 0	
Furniture	1,034 1	
Dandle mixer	980 1	U
Carried forward	\$463,018 6	1

$Brought\ forward\ .$	\$463,018 64
Sanitary service, work done and material fur-	
nished	$100 \ 00$
Street Cleaning and Oiling Service, work done and	
material furnished	487 62
Sewer Service, work done and material furnished,	110 70
Water Service, work done and material furnished,	1,140 79
Bridge Service, work done and material furnished,	43 52
High Pressure Fire Service, work done and ma-	10 02
terial furnished	670 50
Park Department, work done and material fur-	0.0 00
nished	419 42
	410 42
Steam rollers, cost of operating, re-	
pairs, etc	
Less amount earned by steam rollers, 13,824 00	0.000 00
	3,009 69
Gas rollers (two)	11,994 60
Steam roller	$6,850\ 00$
Stone crusher, South End District, operating,	
rental of crusher, supplies, etc.	$15,913\ 30$
Garage, Albany street, employees' wages, fuel,	40.488.00
gasolene, supplies, etc.	12,45790
Tractor "Bear"	5,200 00
Asphalt plant, Ashmont District	2,950 72
Tractors, mixers, etc., supplies, etc.	406 67
m. 4.1	\$591.774.07
Total	\$524,774 07
	\$524,774 07
Credits:	\$524,774 07
Credits: Automobiles: Amount earned by trucks \$94,450 00	\$524,774 07
Credits: Automobiles: Amount earned by trucks \$94,450 00 Cost of operation, repairs,	\$524,774 07
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment,	\$524,774 07
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase	\$524,774 07
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1	\$524,774 07
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks	·
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks  76,253 52 \$18,196 48	·
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks	·
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks	·
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks	·
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks  Asphalt Plant, Brighton District: R e p a i r s, operating expense, materials, etc., Less materials used on streets  \$94,450 00  \$76,253 52  76,253 52  \$18,196 48	
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks  Asphalt Plant, Brighton District: Repairs, operating expense, materials, etc., Less materials used on streets  18,440 09	
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks	
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks  Asphalt Plant, Brighton District: Repairs, operating expense, materials, etc., Less materials used on streets  Stock:  894,450 00  76,253 52  76,253 52  818,196 48	
Credits:     Automobiles:     Amount earned by trucks     Cost of operation, repairs,     supplies, equipment,     etc., including purchase     of 5 Ford Sedans, 1     Pierce Arrow and 6 Reo     trucks	
Credits: Automobiles: Amount earned by trucks Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1 Pierce Arrow and 6 Reo trucks  Asphalt Plant, Brighton District: R e p a i r s, operating expense, materials, etc., Less materials used on streets  Stock: Materials delivered on streets Cost of materials . \$92,926 22	
Credits:   Automobiles:	
Credits:   Automobiles:   Amount earned by trucks   Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1   Pierce Arrow and 6 Reo trucks   Topical Cost of materials   Cost of material	
Credits:     Automobiles:     Amount earned by trucks     Cost of operation, repairs,     supplies, equipment,     etc., including purchase     of 5 Ford Sedans, 1     Pierce Arrow and 6 Reo     trucks	
Credits:   Automobiles:   Amount earned by trucks   Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1   Pierce Arrow and 6 Reo trucks   Topical Cost of materials   Cost of material	
Credits:   Automobiles:   Amount earned by trucks   Cost of operation, repairs, supplies, equipment, etc., including purchase of 5 Ford Sedans, 1   Pierce Arrow and 6 Reo trucks   Topical Cost of materials   Cost of material	

Loads of Snow Removed from February 1, 1924, to January 31, 1925, by Department Forces.

DISTRICT.	Single.*	Double.†	Auto Trucks.‡	Cubic Yards.	Cost.§
South Boston	540	2,244	2,101	20,418	\$14,977 02
East Boston	1,087	287		3,035	7,707 52
Charlestown	1,234			2,468	9,980 88
Brighton	274	193	388	3,455	13,961 11
West Roxbury	686	2,738	1,638	19,414	21,825 74
Dorchester	1,519	442	99	4,958	14,655 11
Roxbury	1,223	327	540	6,667	34,492 34
South End and North End	1,019	413	3,450	23,977	47,105 33
Ashmont	1,331	1,145		6,097	9,359-33
North End (see South End.)					
Hyde Park	300	146	52	1,350	3,978 58
Totals	9,213	7,935	8,268	91,839	\$178,042 9

### Snow and Ice Removed by Contract from February 1, 1924, to January 31, 1925.

Snow Districts.	Number of Loads.	Cubic Yards.	Cost per Cubic Yard.	Total Cost.	Remarks.
District No. 1	446 291	3,816½ 2,857	\$0 70 49	\$2,671 56 1,399 93	1923 contract. 1924 contract.
District No. 2	405 1,093	$\frac{3,735\frac{1}{2}}{6,407\frac{1}{2}}$	70 65	2,614 85 4,164 88	1923 contract. 1924 contract.
District No. 3	550 472	5,662 5,046	65 65	3,680 31 2,523 00	1923 contract. 1924 contract.
District No. 4	1,108 369	$\frac{5,814}{3,136\frac{1}{2}}$	75 67	$\frac{4,360}{2,101} \frac{51}{46}$	1923 contract. 1924 contract.
District No. 5	$\frac{404}{230}$	$\frac{3,137}{1,882\frac{1}{2}}$	75 65	2,352 75 1,223 63	1923 contract. 1924 contract.
District No. 6	642 347	5,434 3,477	75 70	4,075 51 2,433 90	1923 contract. 1924 contract.
District No. 7	638 535	$^{6,569}_{4,139}$	70 63	4,598 30 2,607 89	1923 contract. 1924 contract.
District No. 8	431 268	$^{3,905\frac{1}{2}}_{2,394\frac{1}{2}}$	64 56	2,499 52 1,340 92	1923 contract. 1924 contract.
District No. 9	621 203	5,376 1,901	80 68	4,300 80 1,292 68	1923 contract. 1924 contract.
District No. 10	698 394	$\frac{5,814\frac{1}{2}}{3,109\frac{1}{2}}$	65 59	3,779 43 1,834 60	1923 contract. 1924 contract.

Note. The capacity of the loads varies from three (3) to ten (10) cubic yards.

<sup>\*</sup> Single loads, 2 cubic yards.
† Double loads, 3 cubic yards.
† Auto truck loads, 6 cubic yards.
† Auto truck loads, 6 cubic yards.
† Includes cost of plowing gutters, cleaning sidewalks, and picking ice not carted away. Also automobile snow plows furnished by contractors.

Loads of Dirt and Street Cleanings Removed from February 1, 1924, to January 31, 1925.

Districts.	Single.*	Double.†	Auto Trucks.‡	Cubic Yards.
South Boston	157	405	424	3,511
East Boston	210	132	-	474
Charlestown	748	-		748
Brighton	1,143	326	1,781	12,481
West Roxbury	2,756	2,668	1,446	16,768
Dorchester	453	538	8	1,577
Roxbury	5,122	1,080	2,216	20,578
South End		_	-	_
Ashmont	1,870	721	-	3,312
North End	165	-	-	165
Hyde Park	2,443	778	43	4,257
Totals	15,067	6,648	5,918	63,871

<sup>\*</sup> Single loads, 1 cubic yard. † Double loads, 2 cubic yards. ‡ Auto truck loads, 6 cubic yards.

# PUBLIC WORKS DEPARTMENT — HIGHWAY DIVISION — PAVING SERVICE.

Cost by Years of Resurfacing or Patching from February 1, 1920, to January 31, 1925. Maintenance of Macadam Streets.

	1920.	1921.	1922.	1923.	1924.
Total length of macadam in miles	375.28	366.10	358.47	351.25	‡ 347.63
Total area of macadam in square yards	6,538,199	6,232,041	6,079,424	5,926,385	‡ 5,789,425
Total cost of resurfacing of macadam*	\$289,635 97	\$301,051 59	\$69,752 09	\$57,883 32	\$40,032 79
Total cost of patching of macadam †	\$248,468 81	\$251,521 06 \$173,332 36	\$173,332 36	\$196,758 28	\$251,028 22
Cost of resurfacing per mile over entire mileage	871178	\$822 32	\$194.86	8164 79	\$115 16
Cost of resurfacing per square yard over entire area.	\$0.044	\$0.0483	\$0 0115	80 0097	6900 08
Length of macadam resurfaced yearly in miles	16.2	19.07	5.538	3.322	1.905
Cost per mile of macadam resurfaced yearly.	\$17,878 76	815,786 66	\$12,595 00	\$17,424.23	821,014 58
Area of macadam resurfaced yearly in square yards	089,622	254,321	75,646	47,870	27,461
Cost per square yard of macadam resurfaced yearly	81 26	\$1 183	\$0 9221	81 2091	81 46
Area of macadam patched yearly in square yards	540,690	602,389	483,013	324,187	452,260
Cost per square yard of macadam patched yearly	\$0.429	80 366	\$0 359	6909 08	\$0.555
Binders used in resurfacing (per cent):					
Water	.1200	.1022	.2129	0000	0000
Tar preparation.	.3269	.4420	.0180	0000	0000
Asphalt preparations.	.5231	.4558	.7691	1.0000	1.0000

t By patching is meant scattered areas of depressions, etc., which are filled with new material from a depth of one half inch up, and in some cases blanket \*By resurfacing is meant entire area of street exeavated and resurfaced with not less than four inches of new material.

<sup># 299,163</sup> square yards patched; 153,097 square yards tar blanket coat. Of this amount 126 86 miles or 2,239,695 square yards is bituminous macadam. coated with bituminous binder.

Edgestone and Brick Sidewalk Recapitulation for 1924.

Districts.	Edgestones, Linear Feet.	Brick, Square Yards.
South Boston Paving District, No. 1	398	_
East Boston Paving District, No. 2	232	_
Charlestown Paving District, No. 3		
Brighton Paving District, No. 4	1,129	_
West Roxbury Paving District, No. 5	301	_
Dorchester Paving District, No. 6.	120	100
Roxbury Paving District, No. 7	545	312
South End Paving District, No. 8.	_	
Ashmont Paving District, No. 9	1,250	_
North End Paving District, No. 10.	-	
Hyde Park Paving District, No. 11.	103	_
Totals	4,078	412

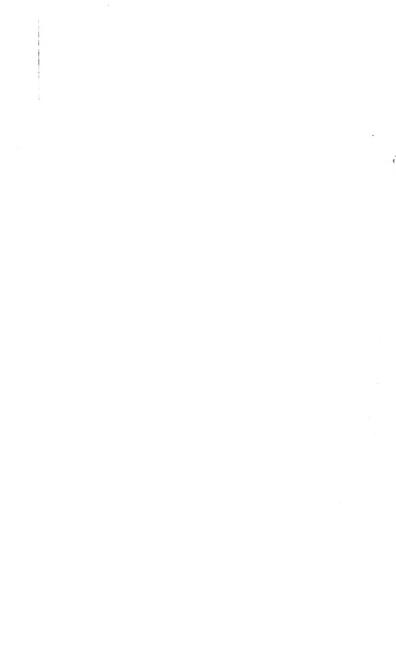
### New Granolithic Sidewalks Laid by Department Forces During 1924.

Districts.	Square Feet.	Location of Work.
South Boston	_	
East Boston	1,096	Sumner and Orleans streets, at new fire house.
Charlestown	1,197	Park street.
Brighton		
West Roxbury	_	
Dorchester		
Roxbury	2,474	Centre street.
South End	4,949	Sterling street, Province street, Decatur street.
Ashmont	2,439	Welles avenue, Roslin street, Walnut street.
North End	_	
Hyde Park	_	
Totals	12,155	

### PUBLIC WORKS DEPARTMENT.

### HIGHWAY DIVISION - PAVING SERVICE - DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "GRANOLITHIC SIDEWALKS."

												MATER							TPENSES					WORK				1
briteit	Fron	T-	Congractor	Pavenent	Length Linear Fort	Area Square 1 et	Total Cost	Ansonat Paul to Contractor	EDGE	BTUNE	GRANITI	BLO- E	HDEWAL	E MATE	MINTEL	LANEOCA	mag	g	ng, ete	2011eg	alterages	Exchantes and Filling	Edportone Set and Reset	Brick Sofewalk Leaf and Reland.	Roaduny Paved and Repaired	Artificial Stone Sedenalk Land	ancons	Processes
									Cost	Quantity	Cost	Quantita	Cust	Quantity	Cost	Quantity	Etapse	Inspect	Travel	Miner	Misrell	Cubo Yards	Lucar Free	Square Yards	Square Yards	Square Feet	Mused	
What we want to be a second of the second of	Frontier of entrol	II he special control of the control	Backbard - arms only suggests  Find and Lawrence and suggests  For a 1 Author  For a 1 Author	for malifies and malifies	112 123 123 123 123 123 124 125 126 126 126 126 126 126 126 127 126 127 127 128 129 129 129 129 129 129 129 129	2156 1877 1864 2.244 1865 1866	61 39 91 41 107 15 100 66 6 20 75 1 167 89 83 11 6,421 16 981 31 153 70 3,717 59 3,812 90	70.5 of 11.1 o	1 128 - 1 128	2071 2071	\$40.90 18 00 207 00 180 08 180 08 12 00 254 9 257 00 479 V	7,500 5,000 7,105 5,000 3,000 4,000 7,000			\$910 23 11 00 3	1		\$17 26 12 \$7 241 64 34 12 103 36 80 14 80 14 34 12 17 20 74 52 86 30 69 04 46 103 51 79	301 2 75 2 75 2 70 2 70 3 70 4 75 4 15 4 15 4 15 4 15 5 90 5 90 5 90 7 33	1 75-1 75-1 75-1 75-1 75-1 75-1 75-1 75-		17	24.3 13.1 146.4 120.7 199.9 440.9 44.9 4.2 2.2 2.2 2.2 2.3 1.3 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4			1,024 1,024 1,024 10,004 1,537 5,09° 1,736 1,736 1,736 1,737 1,737 1,030		Completion duly 19, 1994  War A and 1992  War



### PUBLIC WORKS DEPARTMENT.

HIGHWAY DIVISION PAVING SERVICE DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "HIGHWAYS MAKING OF,"

											7.5	VEEKI MIN				10	MESSER		- 1		Wong	Dove		
				1	Logih Locir Erri	An a Square Vorte	Ford of Ford	Vicense Profit United f			are to in	414.4	OLE DEICH	M144 (24 (11)	a dina	tien	mp, Lie	Stene	1 1	Ligarina Net	Bert, Sidonall, Land and Referd	Reading Payed and Reported	Vertical Notes Sock walk Lond	Parioness
									Cost Inc	mus. 4	t Quinn	t et	Unumbers	Last Quan	nas 🖁	fierpoi	i	13/4	1	dur Lanea rds Freet	st Square the f	Squire Linds	Square Sq Tref 10	uore rds
L)		4	to Million to the terms of the Million Million to the terms of the ter	Leonala Penala Diriz	192	549 549-2 6-25	NIS C	1,767 (5)							S3 000 1 174 S7	\$1.053.41	511 TE	41.70	* 10	10 10				Completed 0 t 22, 1923 Completed Dec 11, 1923 Completed Do 13, 1929
			a distribution	W 156		65.1	10.414	276 11 -	101.91	130				524 51 29 07			2 10	3.00	675	912 3	2	222	2043	Work not started Female and Dec 11, 1924
			11 1 - 22		1.715	1101		100 5 1		30					100. 15	103 %	\$11 \$11		6 = 1		13	1.010	19,701 1,193 571	Completed D r 14, 1924 Completed D r 21, 1924
			a war to b	Programme	125	1.16	1 20 20	1717.71 1		N1.				10.21	17.00	175 34	5.20	b 16	n 75 +1			157		Unbriefed Wark not started, Completed Sept. 21, 1923, Unbriefed
		D. S. Fall	to ben will de Son Amages & Lames He	Last to be Last global	14	1612	130 22	18.6	5-8-1	41					12.5	10 27	10		- 1	791 3		1,039	4.811	Uninched Completed Dec 5, 1923 Work not started .
	The state of the s		Digital Committee	Waltersa			4.9		P1 41					250.00	31.6		į				14	1,01	216	Work and started .
			1104		1900	1 511	17 July 1	7 to 1 1	71.55	709 771	90 511			× 16	48.6	281 %	1.20	14.30	1	1744	62	2.239		Work to a started Completed from 30, 1924 Completed Sent 21, 1923
					3+ 1		1,192,12	12.5	~	25 17	10 P			145.00	131 #4		20	5.00	e 75 - 1.	'	157	3,816	16/025	Completed Aug. 13, 1924 Work doze in 1922
	H				- 1			1.110 -0							26 2 89		2.94	3.10			-			Complied ing 19, 1924 Well not started Work and started
				E cita	1100	1.1"	100	1 m 77 1		761					100 Te 73 71 130 00	135 Pr	2 100			1 764	In-	1,135	4,671	Completed Soc 13, 1924 Completed Son 25, 1924 Walk not stored
	17 6		e the same and the	1 (60)			1, 11, 40								123 30	229 17					14	3,985	12	Completed June 23, 1924
	1011	S 1 1 3 3	Committee and a firm	L. oferher		1110	100 fbil 11 15 fbil 175 f 50			(11 8)	115 -22			22 44	1 5 to 15 4 to 41 x 90	1	11.25	9.00		4155	12	16 1179		3 705 Completed Sept. 12, 1924 Work and storted Completed Nov. 5, 1924
					1,000		27.2 19								35.00		1 (0)							Work not storted Consolited June 25, 1923
				1.35	100		2011	10,701,15	s of -4			48.1	, r		112 52	118 05	N.	10 67	6.75 - 13	1 27 5 1,7	511 54	2.966	12.119	Completed Det. 23, 1924 Completed Nov. 15, 1923
															215 35 215 35		1 10							Work not sharted Work not started Work not sharted
															220 s.2 268 F 30 00		2.50	1						Wark natorieted Wark natorieted Wark natorieted
		Harris day					11.00								18.00									Work not started
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							1-71 3	1291 - 0 - 4		1.01					4 00 30 75 386 85	227 12	23.00		т	1712 15	-12	1,157	3%	Washington No. 14, 1924
			La Valla	and the same			101.00	2 to 7	11, 11	-1				5 12	1155.25	9(2.71)	9.50	6 17	4 F5 1	2.20		5,714	23.768	Completed Do. 12, 1924 Completed Do. 13, 1923 Work not started
			1.11		6-11		1. 161 11		10-10	3 11 14					21 mi 201 mi 71 mi	125 12	2.00	3.11	es T	1.956 I.	216	12973	7,1-0	. Loughtel Spt S 1901
			to all to be to	Comments for 1	71.4 10.5	1.11	111 0		196 (2)	211 50	11 148			1,779 (4)	46 (0)	17 26	311		[N 00]	1 267	100	1,762	2701	Vorsibility of South 12, 1924 Completed Son 22, 1924 Completed Son 23, 1924 Completed Son 13, 1923
			Water word		110		121 25	1. 1.25 1911-191 23-100	1															Completed Vot 8 1923
	**		I W and our H	4 m r t-		211	65.15	65 1 V 100 - 00 200 - 00																Completed Oct. 26, 1923 Completed Not. 1, 1923 Completed Not. 17, 1923
		11 -	Separat Library	A to put A regione, the most 11	155	- 41	500 00 117 77 284 77	117.77	de c	361 1 2	77 11 -	21		1 160 00	(115, 199	106 06	2 10	S 00		1792 4	-17	1,211	17029	t ompleted Nov. 17, 1923 t ompleted that 6, 1923 a ompleted Nov. 7, 1924
		10 1	1110 - 1 6 -	1 101	1,750	110	475.8	5007	,187 B	. 16"					20 77	28 15	2 00		7 75 1					Week not started
			Constant	to a r to	1.27	4777	24156 72	2,382.86 1	11-1-01	2.07	N 100 E	104		1 102 101	1071.25	212 12	28 10	3.00	6.75 1	****	25	1 116	16-125	Completed Sept. 23, 1924 Completed Sept. 4, 1924 Work as a started
							276 15								27 t 1 t 27 t 1 t 220 do 2 00		1 30							Work not started Work not started Work a t started
							2.100								116.20		7 23			1.				Work not started
			The Course of Light	for clima	- 10	210	118 12 V 18 U 190 SI	1, (10, 10						185.48		191 99	3 91			1 504				Completed Nov 5 1924



### PUBLIC WORKS DEPARTMENT.

### HIGHWAY DIVISION - PAYING SERVICE - DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "SPECIAL APPROPRIATIONS."

PRINCE IF I STREET PROVIDE TRADE AND RESIDENCE SHAPELE PROVE SHAPELE PROVE SHAPELE PROVIDE THE STREET TO SHAPELE PROVIDE SHAPE	EXPENSES WORK DONE
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	Anna S 2 E S S Inter the Line Line Line S
1 Carrie 33.1 Carrier W. 1 1 angre Carrier in Take Plan 10, 18, 184 10 Work and annoted Work and annoted	982,595 20 \$2,002,003 \$8.00 Week, not considered.
1.1 Mark 17 1	842 16/12/d 925 33 89 60 Completed 1927
4 WILLIAM 007 00 1 20 W	007-00 • 20-86 Work foats 1922-1-23







### DUBLIC WODES DEPARTMEN

THE HIGHWAY DIALSTON - PAVING STRACE - DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT"

												Materials				0	NENere				Work I	Done		ı!	
			V 1 X 1 Y	1 m(n)	Longth Line of	Sugar	Pal I	Inches Lades Contractor	t took with	eta    ×i	015 129 EG	. 31119	KMX Hiller	NOT CELEVATION IN	PARE	1	19	Miles of the Control	Aut Ding	- 2 = 1	Brok Sales of dis Land and To lead	Bords of Barel and Reported	Verbore Con 44	8-1	Property
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7 1 1 1 P	11		The second of the second	0.12111		2 1912	1 1025 12	97 202 10 16 02 12 16 02 15							\$297.59		41.30			1.16	1 937	2.526	1		pietod September 1, 1924 pletod Dozenkor 21, 192
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		1 10 20	Children Committee	Domar 1 Hou		11172	2011 - 80	21 1 7 2 9			215 110			100.00	1071.99	195.7	13.75	. 181		2 194			1,140	Code	i dea 1922 m i 1928 above l'ado 11 1924
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	1.3 6			he distant			16 1 00		1					725	204 104	212 145	101	22.54	1	20		1.17	1 6.265	13.0	Line Ferral Line started plotted November 8, 192
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### PUBLIC WORKS DEPARTMENT.

HIGHWAY DIVISION - PAVING SERVICE - DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "STREET IMPROVEMENTS."

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19.305 16 \$15 to

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Completed July 8, 1924

Completed June 12, 1924

13/20 01 12/300 000

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### STREET OPENINGS.

Under Classes 1 and 2 of the schedule of permit fees, permits were issued for openings in public ways as follows:

To Whou Issued.	Number of Permits.	Length in Feet.
Sewer and Water Services.	2,472	39,552
Boston Consolidated Gas Company	1,747	43,050
Boston Elevated Railway Company Dedham and Hyde Park Gas and Electric Com-	186	99,757
	110	6,804
pany Edison Electric Illuminating Company	4,275	299,250
New England Telephone and Telegraph Company, Quincy Market Cold Storage and Warehouse Com-	169	13,004
pany	51	987
Miscellaneous	790	104.934
Emergency permits	846	,
Emergency permits used and returned	778	19,540
Totals	10,578	526,878

Making a total length of openings approximately one hundred miles.

Total of all permits issued 21,222.

Permits for other than street openings have been issued as follows:

Cleaning snow from roof			41
13 1			840
Erecting and repairing buildings			1,612
Painting or minor repairs on building			5,272
Moving buildings in streets .			12
Feeding horses in streets			62
Placing signs flat on buildings			1,250
Projecting signs from buildings			129
Raising and lowering safes, etc.			124
Emergency permits for above .			500
Special permits			802
Total			10,644

The revenue from issuing permits amounted to \$33,766.97, divided as follows:

Other purposes		٠				$\begin{array}{c} \$5,974 \\ 27,792 \end{array}$	
Other purposes			•	•	•	21,192	
Total .						\$33,766	97

Of this amount \$28,417.37 was deposited with the City Collector and \$5,349.60 was billed to public service corporations.

### Bonds.

There are now on file 2,507 surety company bonds in amounts of one, three and twenty thousand dollars covering the city against claims for damages, etc, through the use of permits.

### Defects in Sidewalks and Roadways.

Fourteen thousand six hundred and twenty nine notices were sent to the foremen of paving districts, contractors, public service corporations and others to make repairs to pavement defects for which they were responsible.

Eighty-one notices were sent to property owners to repair defective conditions for which they were liable.

### APPENDIX D.

### REPORT OF THE DIVISION ENGINEER OF THE SEWER AND SANITARY DIVISION.

Boston, February 1, 1925.

Mr. Joseph A. Rourke,

Commissioner of Public Works.

Dear Sir,— I submit herewith a statement of the activities, operations and expenditures of the various services of the Sewer and Sanitary Division for the vear ending January 31, 1925.

The maintenance expenditures of the Sewer and

Sanitary Division were as follows:

Sewer Service . Sanitary Service	:				32,455 $32,373$	
Total				. \$3,4	84,828	84

### SEWER SERVICE.

During the year 1924–25 there were built throughout the city 10.468 miles of sanitary sewers and surface drains.

Two hundred ninety-one catch-basins were built or rebuilt, making a total number under the care of the

Sewer Service on February 1, 1925, of 16,843.

Ten thousand three hundred twenty-seven catchbasins and 160 drop inlets were cleaned out by contract and a total of 34,176.85 cubic yards of material removed therefrom.

Two thousand nine hundred and four permits have been issued, as follows: 289 to district foremen, 299 to contractors, and 2,316 to licensed drain layers for repairing or laying new house drains.

Entrance fees to the amount of \$9,148.10 have been deposited with the City Treasurer for collection from

estates for which no sewer assessment was ever paid, in accordance with Ordinances of 1910, chapter 9, section 10.

Plans for the assessment of estates for sewer construction have been furnished the Board of Street Commissioners, representing 25,733.09 linear feet of sewers and appurtenances, costing \$247,886.16.

One thousand three hundred fifty-six complaints have been investigated and a report in writing has been made

in each case.

In the city proper, the principal construction work was the building of the sewer in Congress street, between Atlantic avenue and Purchase street. The old sewer in Devonshire street opposite the First National Bank Building was rebuilt for the bank by the firm of Stone & Webster.

In Roxbury, new sewers were built in Elm Hill avenue, between Seaver street and Schuyler street; in Bolster street, between Mozart street and Wyman street; in Mark street, from Day street easterly, and in Harrishof street, between Warren street and Humboldt avenue.

In South Boston, a small sewer was built in P street,

between Columbia road and East Sixth street.

In Dorchester, another section of the Dorchester Brook sewer was built in Humphreys street and the sewer is now completed of the required size between Norfolk ayenue at the Edison Plant and Dudley street.

In Brighton, Shepard brook, easterly branch, was built in private land between Everett street and Hichborn street, to care for the large manufacturing plants now being located here. Pipe sewer and surface drains were also built in Nottinghill road and Foster street.

In West Roxbury, pipe sewers have been built in the Parkvale road area, which will relieve floodings in a newly built-up area. Pipe sewers have also been built in Bradeen street, private land and Stellman road, and the outlet for the Germantown district has been completed through Washington street and East street to the state sewer in Dedham.

In Charlestown, a 10-inch pipe sewer was built in Crescent street betwen Roland street and Cambridge street.

In East Boston, the Moore street overflow has been rebuilt and extended to tidewater.

At the Calf Pasture pumping station, new iron floors and ladders have been built in the filth hoist house. A duplicate oil feed line has been installed for the new oil-burning boilers and a contract let for electrical motive power for No. 1 and No. 2 centrifugal pumps.

### SANITARY AND STREET CLEANING SERVICE.

The collection and disposal of a city's waste is a problem involving matters of vital importance to the comfort, convenience and health of every citizen. A satisfactory solution of the problem presented by municipal waste will mean more than the efficient removal of useless or offensive material from the premises of the household. It will result in the passing of littered streets, befouled alleys, and rubbish covered vacant lots, and it will add much toward higher standards of community cleanliness.

The satisfactory solution of the waste problem in any large city is considered a municipal responsibility in the larger sense, but it also involves individual responsibility for every citizen. The citizen in many cases ignores this responsibility and nothing will bring more forcefully to the individual a sense of his duty than complete and efficient performance by municipal

authorities of their own share of the work.

To secure sanitary economical methods of refuse collection, suitable equipment must be provided, and during the past year two large Pierce Arrow motor trucks have been added with special equipped bodies and nine steel bodied trailers. These trailers are specially constructed and well adapted for the transportation of garbage and have been used to advantage also in the transportation of rubbish and ashes.

The tendency for improvement in the design of equipment for the character of work to be performed in the Sanitary Service is manifest, since officials have begun to realize the betterments that can be made in equipment for a more sanitary collection. The Sanitary Service has at present eight Pierce Arrow trucks, 5-ton 10 cubic yard capacity, working on the collection of ashes; also three Reos and two Fords on the collection of garbage. This motor equipment has proven very satisfactory, and the motorization of the whole service could be consistently recommended.

During the past year the question of obtaining dumps for the disposal of ashes and rubbish in districts outside of the ten-year contract with the Coleman Company has become very serious. It is also only a question of a very short time before the large South Bay dump furnished by the Coleman Company under their contract will be filled, and it will become necessary to build a Receiving Station for ashes and rubbish at our Albany Street Yard. Such a station would not only result in a great saving on depreciation and equipment but would accelerate the collection of rubbish and ashes in the Roxbury, South End, and Back Bay districts, and could be so designed that at the expiration of the Coleman contract in 1932, with certain changes and additions, it would be available for an incineration plant.

Difficulty in obtaining dumps in the Charlestown district is also acute. It will be necessary to secure additional facilities in the near future for the disposal of

the ashes and rubbish in this district.

Incineration, disposal by burning or destruction by fire, seems to be the only successful method from a sanitary standpoint of alleviating this nuisance.

### STREET CLEANING.

Methods of street cleaning have undergone some changes in the past five or six years. Mechanical apparatus has taken the place of hand sweepers on most of our smooth streets. In Boston, as in all large cities, it is still necessary to use hand brooms and horse-drawn sweepers in some of our rough paved streets. I am firmly of the opinion that motor apparatus will have been so developed and perfected within the next few years that the elimination of all horses in the Street Cleaning Service will be possible.

The parking of automobiles seriously interferes with the operation of the Street Cleaning Department in all large cities. With the exception of the White Wings, or pick-up men, daylight cleaning has been abandoned. Night cleaning is less satisfactory and more expensive than day cleaning, but changed traffic conditions and

parking have made it necessary.

The methods used in the City of Boston for street cleaning are quite satisfactory, but as a clean city is dependent upon well paved streets, until Boston has finished its proposed paving program, we cannot expect to have a spotless town. The rapid growth of the smooth pavement in our suburban districts calls for an extension of the street cleaning activities to those sections of the city. This means an additional appropriation for the purchase of motor and other necessary equipment. With this additional motor equipment and the great improvement for its housing by the building of a municipal garage, this Service will be in a most advantageous position to produce better results in municipal cleanliness.

Yours respectfully,

E. F. Murphy, Division Engineer.

### SEWER SERVICE.

The work of the Sewer Service is carried on under chapters 28 and 40, Revised Ordinances of 1914, and the following statutes:

Chapter 426, 1897, as amended by 450, 1899 and 268, 1903. Chapter 383, 1903, as amended by 464, 1907. Chapter 550, 1907. Chapter 204, 1908. Chapter 514, 1908.

Chapter 74, Special Acts, 1918.

### The Duties of the Sewer Service.

1. Preparation of plans for sewerage works.

2. Construction and maintenance of all drainage works.

3. Investigation of complaints in regard to defective drainage.

4. The granting of permits for sewer construction.

5. The preparation of plans for the assessment of the cost of sewer construction.

6. The examination of the plans of other corporations proposing to construct works in public streets with reference to their probable interference with sewerage works.

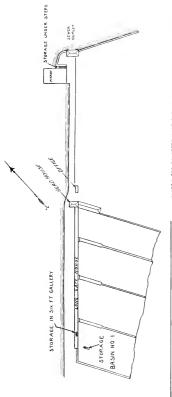
Employees on pay roll January 31, 1924 Employees on pay roll January 31, 1925	$\frac{326}{323}$
Weekly pay roll for week including January 31, 1924	\$10,202 91
$1\dot{9}\dot{2}\dot{5}$	\$11,224 30 \$400 00
Monthly pay roll January 31, 1924 Monthly pay roll January 31, 1925	6400 00
Monthly pension roll January 31, 1924: Veterans	\$455 21
Laborers	\$421 52
Veterans Laborers	\$343 88 \$240 76
nabolels	4-40 .0

Average weekly pay	roll, inc	ludin	g mo	ontl	ıly	roll		
and exclusive of	pension	ı roll	for	fisca	ıl y	ear,		
charged as follov	vs:				•	,		
Maintenance .							*\$7,586	19
Construction .							\$3,964	89
Average number of m								331
Men on pension roll	January	31 19	924:					
Veterans								9
Laborers								14
Men on pension roll	January	31, 1	925:					
Veterans .								7
Laborers								8
Average number of	horses	main	taine	$^{\mathrm{ed}}$	by	$_{ m the}$		
service during th								17
Rate of wages paid to	ocomm	on <b>la</b> l	orer	s			\$4	50

<sup>\*</sup> Includes amount charged to Paving Service, \$165.

Financial Statement from February 1, 1924, to January 31, 1925.

	rinanciai st	r manetal Statement 110m regluary 1, 1924, to Samuary 51, 1925.	rentualy 1	, 1924, to Jai	uary 51, 1925.		
Онавст.	Balances on Hand Feb. 1, 1924.	Appropriations Loans and Revenue.	Transfers to.	Transfers to.   Transfers from.   Total Credits.	Total Credits.	Expenditures During the Year.	Balances on Hand Jan. 31, 1925.
Sewer Service		\$665,572 64		\$29,643 90	\$29,643 90 \$635,928 74	\$635,928 74	
Sewerage works	\$52,470 15	\$52,470 15 1,000,610 60			1,053,080 75	853,784 21 \$199,296 54	\$199,296 54
Sewerage works Charles River Basin	58,541 63				58,541 63	50,570 56	70 176,7
Totals.	\$111,011 78	\$111,011 78 \$1,666,183 24		\$29,643 90	\$29,643 90 \$1,747,551 12 \$1,540,283 51 \$207,267 61	\$1,540,283 51	\$207,267 61
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## TEST FOR BLOCKS ALWAYS UNDER SEWAGE

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CONCRETE TEST BLOCKS AT MDDN ISLAND RECORD 1924

PUBLIC WORKS DEPARTMENT SAWE & SAWATTO DIVISION SEWER SERVICE DRAUGHTING ROOM 6057-28 8 P IN 23

> Traced & Of Jack H. Traced & Jack H. Traced & J. Jack H. James Company Engineer in Engineer

There Engineer in Charge Nod. 15th 1934



### MAINTENANCE EXPENDITURES FEBRUARY 1, 1924, TO JANUARY 31, 1925.

### SEWER SERVICE.

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Maintenance									6.608	22
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Miscella	neov	s Ma	inter	nance	e Ch	aracs	š.			
Cleaning catch-basins						·			$110,\!872 \\ 292 \\ 29,\!922$	22
Yards and lockers						•	•		292	96
Employed at vards				:				Ċ	$292 \\ 29,922$	06
Automobiles						\$18.	959	94	-0,022	00
Horses, carts, harnesses, etc.	э.					9,	566	36		
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_										
						\$39,	957	34		
Less amount earned by serv		toom		1		,		01		
trucks	rice	(eams	sam	ıauı	O	17	729	10		
ducks				•		11,	ندن ا		22,225	94
Cleaning sewers									53,283	
Office salaries		•							19,227	
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Office expense										
Repairing department build	lings					\$2.	506	25	2,514	
Repairing department build Repairing catch-basins, Sou	lings th H	: Bostor	1			\$2, 1,	506 344	25 38		
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$Brought\ forward$					\$39,78	86 56	\$499,658	89
Repairing sewers, Hyde Park Repairing sewers, Roxbury Repairing sewers, city proper		Ĭ.				16 20	***************************************	-0
Repairing sewers, Roxbury					4.99	22 24		
Repairing sewers, city proper					4.9			
							50,209	36
Pension roll (veterans)							4,872	
Pension roll (laborers)							3,692	
Annuities							351	00
Pension roll (laborers) Annuities Fuel and oil Hardware tools, etc. Engines and boilers							2,630	86
Hardware tools, etc							5,262 385	42
Engines and boilers							385	63
							48.836	97
Telephones							367 11,581	78
House connections							11,581	69
Rubber goods							819	42
Gatehouse, Fenway							4,276	
Telephones House connections Rubber goods Gatehouse, Fenway Stock							13,274	99
								_
							\$646,219	76
		redi						
Stock transferred and used in	const	ruet	tion		\$9.43	59 45		
Fuel and oil transferred and	d use	ed i	in co	n-				
Fuel and oil transferred and struction					88	31 - 57		
							10,291	02
							\$635,928	74
							5000,020	- 1
	777	,	ъ.	,		1.17		
Charges to Various Parties f					Materi	at Fur		
Frank Weiss							\$13	
M. A. French	٠.	S: .					6	
Metropolitan Water and Sewe	rage 1	Div:	ision				10,300	úΟ
Francis X. Courtney Edward A. Moore							15	
Edward A. Moore							*21	
A. A. Knight & Son Corporati	on						7 7	70
Humboldt Garage							3	
Charles Breiding		-					15	
Eglesion Square Garage							15	
Front Moson							6	
Coorgo F Cherry							$\frac{0}{22}$	
Cobb Theater							7	
Edward A. Moore A. A. Knight & Son Corporati Humboldt Garage Charles Breiding Egleston Square Garage F. C. Troop Frank Mason George E. Cherry Cobb Theater George C. Irwin Company Nora Belideau							7	
Nora Belideau							7	
R. H. McDowell							7	
The Employers Liability Ass	uranc	e (	orpo	rat ic	n. Lin	nited.		
Louis Martinello						,	9	82
William Quinn							5	
							11	10
J. Miller							11	10
J. Miller							91	00
J. Miller Leo Heller J. P. Perry & Company, Inc.							91	00
Louis Martinello William Quinn J. Miller Leo Heller J. P. Perry & Company, Inc. Knickerbocker Garage						•	$\frac{91}{7}$	00 50 75
D. Carmody	*						91 7 7 7	00 50 75 50
D. Carmody Joseph Cagginano							91 7 7 7 7	00 50 75 50 75
D. Carmody Joseph Cagginano							91 7 7 7 7 10	00 50 75 50 75 00
D. Carmody Joseph Cagginano							$egin{array}{c} 91\\ 7\\ 7\\ 7\\ 7\\ 10\\ 25 \end{array}$	00 50 75 50 75 60 75
D. Carmody Joseph Cagginano							91 7 7 7 7 7 10 25 *2	00 50 75 50 75 00 00 13
D. Carmody							$egin{array}{c} 91\\ 7\\ 7\\ 7\\ 7\\ 10\\ 25 \end{array}$	00 50 75 50 75 00 00 13
D. Carmody Joseph Cagginano							91 7 7 7 7 7 10 25 *2	00 50 75 50 75 00 00 13

Brought forms	md.										#10 001	~0
Brought forwa Parkway Realty C	u		•	•	•		•				\$10,801	
			•		•						†100	
Frank Greens								٠				
H. P. Dodge .											4	
Maurice P. Horan											8	38
A C Tomosollo f	. Car											
A. G. Tomasello & New England Tele	COL	1	à m	i	1-	á					563	
	pnoi	ae an	a 16	etegr	apn	Cor	npan	1.				91
T. Dennehy											21	
I. Lazarus .												38
Park Department											74	15
Parkway Realty C		any									†100	00
Park Department											22	10
Leo Heller .											$^{24}$	
Lloyd H. Chase											10	00
Warren E. Loeke											4	14
Dr. John Adams											8	50
L. V. Niles .											34	00
Annie M. Carey											11	25
Abraham R. Taylo	r										8	38
Henry Lesser											8	50
H. J. Cassidy .											10	75
Hotel Huntington												25
M. J. Creehan												88
William Manganie	llo										îî	87
Margaret H. Lann											2	40
Payson Dana					į.							50
S. Esserman .							•					50
Walter J. Dwyer				•		•		•			8	75
Michael Creehan				•				٠				12
James A. Kennedy						٠					7	80
Frank X. Weiss							•		•			
A. J. Chapski	•	•					•				13	
Arthur Harrington	•	•					•				15	
Arthur Harrington											*10	
B. W. Robinson			•	•					,			00
S. P. Brickley	•			•								50
Marden & Orlando	Cor	· setru	ctior	· Co	mne	n.:					†100	
W. P. Gorman & C	7001	1501 (1	CUOL	1 00	пра	пy					†50	
Supply Departmen												
F. W. Burnham	i C										25	
Humboldt Avenue	Com		•								10	
J. J. Kennedy	Gara	age	•									75
Nicholas DeMassa											†115	
			•	٠						•		50
Anthony Esposito		•										50
F. L. Gale	•	•	•									26
G. R. Price	•	•	•								13	
Martin M. O'Hare	a	•									16	
Randall Faichney											15	
Randall Faichney	om]	pany		•							*11	
F. J. Reardon		-		•							11	
T. F. Reardon	٠,										5	
W. P. Gorman & C E. N. Samit .	·0.										†48	
											†96	
A. A. Kincaid											13	
J. Sperraza							٠					25
George Gonia											8	
Angelo Miceli											13	
T. Hurney											11	75
~										-		_
Carried forward	t .										\$12,628	80
									_			

<sup>\*</sup> Uncollected 1924-25. † Credited to Sewerage Works Appropriation.

Brought forward       \$12,628 80         Michael Cuddy       25 00         Mary Markowitz       35 06         A. J. Granara       8 50         Frank X. Weiss       18 23         Hugh J. Cassidy       13 00         S. H. Hudson       8 50         Jennie M. Miner       25 00         Boston Consolidated Gas Company       257 93         Uncollected 1924-25       \$13,039 96         46 44       44         Bills deposited in other years paid 1924-25       170 06         Total amount collected       \$13,163 58         Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10       9,148 10         \$22,311 68													
Michael Čuddy       25 00         Mary Markowitz       35 06         A. J. Granara       8 50         Frank X. Weiss       18 23         Hugh J. Cassidy       13 00         S. H. Hudson       8 50         Jennie M. Miner       19 94         Max Novack       25 00         Boston Consolidated Gas Company       257 93         Uncollected 1924-25       \$13,039 96         Uncollected 1924-25       46 44         Sill, 993 52       170 06         Total amount collected       \$13,163 58         Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10       9,148 10	Brought forwa	rd										\$12,628	80
Mary Markowitz       35 06         A. J. Granara       8 50         Frank X. Weiss       18 23         Hugh J. Cassidy       13 00         S. H. Hudson       8 50         Jennie M. Miner       19 94         Max Novack       25 00         Boston Consolidated Gas Company       257 93         Uncollected 1924-25       46 44         Sills deposited in other years paid 1924-25       \$12,993 52         Total amount collected       \$13,163 58         Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10       9,148 10													
A. J. Granara 8 50 Frank X. Weiss 18 23 Hugh J. Cassidy 13 00 S. H. Hudson 8 50 Jennie M. Miner 19 94 Max Novaek 25 00 Boston Consolidated Gas Company 257 93  Uncollected 1924–25 \$13,039 96 Uncollected 1924–25 \$12,993 52 Total amount collected \$124–25 \$12,993 52 Total amount collected \$124–25 \$13,163 58  Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10 9,148 10												35	06
Frank X. Weiss       18 23         Hugh J. Cassidy       13 00         S. H. Hudson       8 50         Jennie M. Miner       19 94         Max Novack       25 00         Boston Consolidated Gas Company       257 93         Uncollected 1924-25       \$13,039 96         46 44       \$12,993 52         Bills deposited in other years paid 1924-25       \$170 06         Total amount collected       \$13,163 58         Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10       9,148 10												8	50
Hugh J. Cassidy       13 00         S. H. Hudson       8 50         Jennie M. Miner       19 94         Max Novack       25 00         Boston Consolidated Gas Company       257 93         Uncollected 1924-25       46 44         Sills deposited in other years paid 1924-25       170 06         Total amount collected       \$13,163 58         Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10       9,148 10												18	23
S. H. Hudson 8 50 Jennie M. Miner 19 94 Max Novack 25 00 Boston Consolidated Gas Company 257 93  Uncollected 1924-25 \$\frac{13,039}{46}\$ 96 Uncollected 1924-25 \$\frac{1324-25}{46}\$ \$\frac{13293}{46}\$ 52  Bills deposited in other years paid 1924-25 \$\frac{13293}{46}\$ 52  Total amount collected \$\frac{1324-25}{46}\$ \$13													
Jennie M. Miner         19 94           Max Novack         25 00           Boston Consolidated Gas Company         257 93           Uncollected 1924-25         \$13,039 96           46 44         \$12,993 52           Bills deposited in other years paid 1924-25         170 06           Total amount collected         \$13,163 58           Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10         9,148 10							-			-		8	50
Max Novack Boston Consolidated Gas Company         25 00 257 93           Uncollected 1924-25         \$13,039 96 46 44           Bills deposited in other years paid 1924-25         \$12,993 52 170 06           Total amount collected         \$13,163 58           Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10         9,148 10		•								•			
Boston Consolidated Gas Company   257 93							•	•	•				
Uncollected 1924-25		tod.					٠	•					
Uncollected 1924–25	Doston Consonda		Cias	COL	111/411	, .	•					-0.	00
Bills deposited in other years paid 1924-25	$\mathbf{U}_{\mathbf{n}}$ collected	19:	24-2	5.									
Total amount collected													
Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10 9,148 10	Bills deposited in	oth	er ye	ars	paid	1924	-25					170	06
Entrance fees charged and collected in accordance with Ordinances of 1910, chapter 9, section 10 9,148 10	-												
Ordinances of 1910, chapter 9, section 10 9,148 10	Total amoun	t co	llect	ed								\$13,163	58
Ordinances of 1910, chapter 9, section 10 9,148 10	Entrance foce of	ora	od o	ha	colle	eted	in .	accol	rden	20 W	ith		
\$22,311 68									•			9,148	10
<u> </u>												\$22 311	68
												#22,011	00

Sewer Service. -- Maintenance Expenditures, Detail, 1924-25.

Accounts.	Total Expenditures.	Labor.	Teaning.	Stock.	Contracts.	Misrellaneous.		
Automobiles (18).	\$18,959 94	\$12,709 17				Repairs       887         Equipment       4.25         Supplies       1.03         Fees       9	\$874.30 1,251.71 1,033.76 91.00	\$6,250 77
Cleaning catch-basins	110,872 22	40,885 41	\$2,968 60	\$125 30	\$66,712.76	Transportation	\$171 15 9 00	180 15
Cleaning sewers.	53,283 60	28,903 83	6,616 48		17,615 53	Duniping	:	147 76
Engines and boilers	385 63	321 10				WasteRepairs and inspections.	\$17 25 47 28	64 53
Employed at Salus	2,630 86			:		Coal. \$1.43 Oil and gasolene. 1,19	\$1,439 25 1,191 61	2,630 86
Hardware and tools	5,262 42	100 94	29 75			Hose \$1,73 Hardware, repairs, etc. 3,39	\$1,733 09 3,398 64	5,131 73
House connections	11,581 69	9,927 19	193 11	68 20	950 82	Transportation	:	442 37
Horses, carts, harnesses, etc	9,566 36	6,082 79				Fodder. S2,59 Stable goods and supplies, 6 Repairs, wagons and har- nesses. 31 Shoeing. 50	\$2,592.73 67.87 317.66 505.31	: :
Maintenance, Stony Brook	6,608 22	5,958 45	598 49	51 28				70 0010
Office expense	2,514 93	10 50				Postage and printing \$46 Stationery and supplies, 1.88 Miscellancous	8467 24 1.884 32 152 87	2,504 43

Sewer Service.— Maintenance Expenditures, Detail, 1924=25.— Concluded.

Accounts.		Total Expendi- tures.	Labor.	Teaming.	Stock.	Contracts.	Miscellaneous.	
Office salaries		\$19,227 78	\$19,227 78					
Rubber goods		819 42					90 pairs boots. 48 coats. 24 pairs mitts. 46 hats.	8819 42
Stock		13,274 99	1,423 82	\$188 88	\$11,662 29			
Teaming		11,431 04	11,431 04					
Yard and locker		292 96	4 60				Gas and electricity \$178 16 Miscellaneous 110 20	288 36
Telephones		367 78						367 78
Back Bay Fens, gatehouses		4,276 21	2,123 23	4 00			Electricity. \$1,192 52 Repairs, etc. 956 46	2,148 98
Sundries		48,836 97	40,195 82	2,614 27	376 60		Repairs, etc. \$2,462 79 Transportation. 582 97 Workingmen's Compensation. 2,604 52	5,650 28
Repairing department buildings	ngs	2,506 25	474 89		311 26		Repairs	1,720 10
Repairing catch-basins, South Boston	th Boston	1,344 38	893 34	133 75	317 29			
" East	East Boston	1,501 98	717 43	274 75	209 80			
" Chai	Charlestown	1,456 53	617 12	239 50	599 91			
. Brig	Brighton	531 27	211 67	60 50	259 10	_	•	

		-				
\$25,049 46	\$85,279 11	\$21,477 76	\$17,383 44	\$232,027 09 \$17,383 44 \$21,477 76	\$381,216 86	Totals
7,132 63		9,459 45		11,431 04	3 28,023 12	Teams \$17,732 10 Stock. \$145,732 10 Puel and oil 831 57
\$32,182 09	\$85,279 11	\$30,937 21	\$17,383 44	\$243,458 13	\$409,239 98	
				8,564 54	8,564 54	Pension rolls, veterans and laborers
351 00			:	:	351 00	Annuities
		2,242 91	331 50	2,339 95	4,914 36	" City Proper
		3,581 67	263 38	1,147 19	4,992 24	" Roxbury
		53 60	28 00	384 60	516 20	" " llyde Park
		2,435 90	325 00	2,851 45	5,612 35	" Dorchester
		669 01	282 50	2,188 42	3,139 93	" West Roxbury
		198 35	96 69	665 62	933 33	" Brighton
		646 05	215 00	1,184 01	2,045 06	" Charlestown
		1,557 14	674 50	3,009 52	5,241 16	" East Boston
		707 58	63 50	1,928 40	2,699 48	Repairing sewers, South Boston
		1,760 17	165 00	2,427 55	4,352 72	e City Proper
		785 40	287 50	1,451 64	2,524 54	" Roxbury
		7 40	33 50	125 68	166 58	" Hyde Park
		1,402 00	522 00	2,118 74	4,042 74	" Dorehester
	-	00 609	150 62	928 64	1,688 26	" West Roxbury

### MISCELLANEOUS ACCOUNT, DETAIL.

	,	
Labor.  Vacations Sick leave Snow removal and cleaning streets, Salary, general foreman Salary, inspector of eastings Workingmen's compensation Repairing streets New fence, Child Street Yard	\$9,355 57 2,533 34 9,266 33 1,198 75 1,788 26 2,604 52 1,174 21 1,034 23	
Repairing buildings, Sanitary Service	$\begin{array}{c} 1,285 & 95 \\ 4,091 & 83 \\ 671 & 08 \end{array}$	
Miscellaneous Inspection—Complaints: Defective drainage, prevention of gasolene entering common sewers	7,796 27	\$42,800 34
$\begin{tabular}{ll} $Teaming. \\ Removing snow and cleaning streets, \\ Miscellaneous \end{tabular}$	\$2,437 52 176 75	2,614 27
Stock	\$383 30 582 97 1,162 43 38 00 220 10 822 07	2,014 21
Miscellaneous		3,422 36
		\$48,836 97

Sewer Service.— Maintenance Expenditures, Detail, 1924-25.

		20 131120										
ACCOUNTS.	Total Expendi- tures.	Labor.	Teaming.	Waste.	Fuel.	Oil and Gasolene.	Packing,	Valves.	Trans- porta- tion.	Stable.	Pipe Fittings and Miscel- laneous	Autos.
Puniping station, Calf Pasture:												
Inside	\$100,836 70	\$35,225 57	\$257 13	\$257 13 \$793 40	\$57,113 87	\$175 70	-		\$11 00	-	\$7,260 03	
Outside	36,034 40	31,423 22								00 9268	3,330 41	\$304 77
Engine	46,245 80	37,369 06				1,837 51	1,837 51 \$923 18	\$1,095 59			5,020 46	
Boilers	23,014 79	17,133 50									5,851 29	
Moon Island	21,976 10	18,611 00	46 00	7 50	472 50	19 60			101 29		1,504 05	1,214 16
Main and intercepting sewers	16,177 70	12,995 91	1,815 00	:							1.366 79	
Pumping stations:									_			
Union Park street	7,970 72	6,045 33	206 00	:	569 16				:		1,150 23	
Summer street	1,381 71	781 08								:	600 63	
Hyde Park	1,073 96	907 57									166 39	
Totals	\$254,711 88	\$160,492 24	\$2,324 13 \$800 90	06 008\$	\$58,155 53	\$2,032 81	\$923 15	\$1,095.59	8112 29	8976 00	\$2.082,928	\$1,518 93

### Recapitulation. - Maintenance, Detail, 1924-25.

	Improved Sewerage		Outside Improved Sewerage.	Totals.
Labor	\$160,492	24	<b>\$</b> 243,458 13	\$403,950 37
Contracts			85,279 11	85,279 11
Teaming, hired and city	2,324 1	13	17,383 44	19,707 57
Waste	800 9	90	17 25	818 15
Fuel	58,155 5	53	1,439 25	59,594 78
Oil	2,032 8	81	1,191 61	3,224 42
Packing	923 1	18		923 18
Valves	1,095 5	59		1,095 59
Transportation, etc	112 2	29	1,196 49	1,308 78
Horses, etc	976 (	00	3,483 57	4,459 57
Pipe fittings and miscellaneous	25,993 (	06		25,993 06
Telephone	287 2	22	367 78	655 00
Automobiles, repairs and supplies	1,518 9	93	6,250 77	7,769 70
Stock and miscellaneous supplies			49,172 58	49,172 58
	\$254,711	88	\$409,239 98	\$663,951 86
CREDITS.				
Outside Improved Sewerage.	1			
Labor\$11,431 04				
Stock 9,459 45				
Miscellaneous			28,023 12	28,023 12
Totals	\$254,711	88	\$381,216 86	\$635,928 74

SUPPLIES, PUMPING STATION, CALF PASTURE.

2,887 pounds waste, 20 cents to 26 cents.

308 pounds cotton rags, 16 cents.

3,008 pounds grease, 15 cents.

- 4,730 gallons engine oil, 21.3 cents to 23.8 cents.
- 1 278.2 gallons cylinder oil, 29.5 cents to 32 cents.

10 gallons lard oil, \$1.75.

55½ gallons sperm oil, \$1.40. 10 gallons air cylinder oil, 75 cents.

765 gallons kerosene, 12 cents.

FUEL, ENTIRE SERVICE.

1,336,366.4 gallons fuel oil, \$57,108.87. 172.12 tons anthracite, \$2,485.91.

### Cleaning Catch-basins, 1924-25.

П	Districts.	Contractor.	Start and Fmish of Work.	Price per Cubic	Cubic Yards Exca- vated by Contractor.	Contractor Received by Districts.	Total Basins Cleaned.	Total Drop Inlets Cleaned.	Aretage Cubic Yards per Basin.	Total Cost of Inspection.	Average Total Cost. to City per Basin, Including Drop Inlet.
	City proper	C. & R. Construction Company.	April 8, 1924   Jan. 31, 1925	12 28	7,547 82	\$17,737 37	2,582	20	2.913	\$3,292 84	87 99
ci	Back Bay, South End and Rexbury	M. H. Kelly.	(March 31, 1924) (Jan. 5, 1925)	1 78	2,999 86	14,239 76	2,068	851	3.86	2,808 98	8 13
	South Boston	John J. Loonie	March 31, 1924   Nov. 20, 1924	1 64	4,035 88	6,618 85	1,131	19	3.36	1,171 76	92 9
₩ 139	Charlestown and East Boston	David W. Norton	[Nov. 4, 1924]	1 94	1,076 63	05 098,9	291	11,	3.61	1,012 52	7 95
ાં	Brighton	Joseph A. Sprissler	March 31, 1924   Oct. 15, 1924	51	3,206 99	6,862 95	1.015	4	3.157	1,017 96	7 73
6.	West Roxbury	Michael H. Loonie	March 31, 1924  Oct. 17, 1924	1 90	2,634 15	5,004 89	936	18	8.	739 11	6 02
۲.	7. Dorchester and Hyde Park	John J. Leonie	March 31, 1924   Jan. 25, 1925	1 80	4,841 51 374 29,	9,388 14	( 1,458 ( 159)	75	3.217	1,617 08	6 71
I	Totals				34,176 85	\$66,712.76	10,327	160		\$11,660 25	
H	Total catch-basin cleaned	10,327	Total e	Total eost: Contractors Inspection Advertising. Miscellaneou	Contractors Inspection	Contractors Inspection Miscertain Miscellaneous				\$66,712 76 * 12,803 54 9 00 184 15	

Average cubic yards material removed per basin, 3.30. Average cost per cubic yard removed, \$2,332. \* General inspection, \$1,113.29.

Total cubic yard, material removed, 34,176.85.
Average cost per basin, including drop inlets, \$7,603.

\$79,709 45

Sewerage Works. Expenditures, February 1, 1924, to January 31, 1925.

Accounts.	Labor.	Teaming.	Materials.	Miscel- laneous.	Paid to Contractors.	Totals.
Engineer's salaries	\$106,013 05					\$106,013 05
Engineer's expenses.	2,592 31	\$805 00	\$110.20	\$8,300 79		11,808 30
Pumping stations	1,878 65		190 19	2,687 06	\$10,233 53	14,989 43
Sundries	604 46					604 46
Land-takings and court executions				18,000 00		18,000 00
New manholes, entire city	9,899 47	1,606 86	4,554 18		12,666 15	28,726 66
New catch-basins, South Boston	1,896 46	253 30	817 46		3,690 72	6,657 94
New catch-basins, East Boston	1,192 20	198 25	904 37			2,294 82
New catch-basins, Charlestown.	144 69	13 00	225 89		2,459 44	2,843 02
New catch-basins, Brighton	1,356 49	323 63	1,421 57			3,101 69
New catch-basins, West Roxbury	5,305 98	632 75	3,010 20			8,948 93
New catch-basins, Dorchester	8,034 15	648 75	4,759 94		4,235 44	17,678 28
New catch-basins, Hyde Park	859 25	108 00	645 87		2,045 29	3,658 41
New catch-basin, Roxbury	8,874 71	1,306 00	5,621 40		7,876 43	23,678 54
New catch-basins, city proper	4,584 54	788 87	1,438 38		6,365 89	13,177 68
Sewers built in entire city	47,161 94	266 50	14,260 18	2,579 45	527,334 93	591,603 00
Totals	\$200,398 35	\$6,950 91	\$37,959 83	\$31,567 30	\$576,907 82	\$853,784 21

## Sewerage Works, Construction, February 1, 1924, to January 31, 1925, Inclusive.

Г. ОСАТЮМ.	Begun.	Finished.	Built by.	Length (Feet.)	Character.	Amount Expended in 1924.
South Boston.						
Farragut road extension and outlet in private land.						\$1,934
East First street from P street to O street						83 61
Wesley street from Hyde street to Preble street* Aug. 18, 1924	Aug. 18, 1924	Aug. 30, 1924	John Williams & Co	241 17	12" pipe, sanitary.	2,362 55
P street from Columbia road to East Sixthf	Sept. 18, 1924	Oct. 7, 1924	C. Iacozza	140	10" pipe, sanitary.	2,158 69
Binford street from A street to Necco street and Necco street from Binford street to Necco court*.	Nov. 3, 1924		V. Barletta	140	18" pipe, sanitary	1,208 74
EAST BOSTON.						
Border street from Sunner street to Central square.						1,583 71
Border street at Central square	April 8, 1924	April 18, 1924	C. A. Bassett	196 00	12" pipe, sanitary	1,052 71
Moore street overflow outlet from Coleridge April 30, 1924 street to Cowper street.	April 30, 1924	July 16, 1924	Wm. Barret & Co	136 68	5' 0"concrete overflow	11,351 94
Ashley street from Breed street to Boardman street*.	June 30, 1924		A. Baruffaldi Company	570 75 191 03 63 40 179 28	1' 6' by 2' 0" concrete surface	15,942 20
Paris street from Sumner street to manhole July 10, 1924 275 feet casterly*.	July 10, 1924		A. Baruffaldi Company	276 10	20" pipe sanitary	2,467 45
Gladstone street from Tower street to 150 feet westerly.	Nov. 3, 1924	Dec. 2, 1924	The Pierce Company	149 90	12" pipe sanitary1 manhole.	1,207 05
		- + +	1000			

\* Cost not complete.

## Sewerage Works, Construction, February 1, 1924, to January 31, 1925, Inclusive. — Continued.

	•				
Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1924.
July 14, 1924	July 22, 1924	4 George J. Regan	149.10	10" pipe, sanitary1 manhole.	\$1,109 05
Oct. 21, 1924	Oct. 28, 1924	4 Bay State Dredging Com-	11	30" cast-iron pipe surface	986 25
					278 48
					1,294 17
					150 75
May 6, 1924	 May 26, 1924	4 John Guarino & Co	242.85	10" pipe, sanitary	1,335 52
School street, from Waverly street to Fletcher May 1, 1924 street.	 May 26, 1924	4 A. D. Daddario	239 13 236 81 8	10" pipe, sanitary. 24" D. S. pipe, surface. 16" cast-iron pipe, surface. 2 manholes.	3,097 54
Shepard Brook, easterly branch in Everett street April 29, 1924 private land, Hichborn street, from Everett street to Arthur street.*	Aug. 9, 1924	4 V. (James) Grande	925 906.70 6.50	5' 6" circular concrete surface 12" pipe, sanitary. 18" D. S. pipe, surface. 9 manholes.	34,128 14
April 28, 1924	July 5, 1924	d C. Russo	175 10 633 30 1,139.80 174.	18" D. S. pipe, surface	14,601 31
May 27, 1924	July 15, 192	Price road, from Glenville avenue to Long ave- May 27, 1924 July 15, 1924 John Guarino & Co	232 64	10" pipe, surface	1,520 84

2,049 26	2,579 87	2,029 16	2,005 21		117 09	2,612 95	1,326 48	274 00	32,506 51	1,624 71	340 47	3,139 09	7,890 93
298.14 10" pipe, sanitary	10" pipe, sanitary	10" pipe, sanitary	10" pipe, sanitary 10" pipe, surface. 1 manhole.		***************************************							10" pipe, sanitary 10" pipe, surface. 5 manholes.	10" pipe sanitary 10" pipe surface 10" pipe surface 10" pipe surface 18" DS 50 pipeling 18" DS 50 pipeling 18" DS 50 pipeling 18" DS 50 pipeling 18" DS 50 pipe surface 10" pipe cutch-basin drain. 8 manholes 8 rattle-basins.
298.14	602 02	345.25	742. 180.									380.37 374 08	235 16 299 299 29 259 299 29 114 25 2
19, 1924 A. Grande	Joseph Todesca	A. Grande	A. D. Daddario									A. E. Daddario	DeCristoforo Brothers Company.
	Oct. 15, 1924	Dec. 30, 1924										May 7, 1924	May 26, 1924
July 15, 1924 Aug.	Sept. 17, 1924 C	Nov. 12, 1924   I	Nov. 28, 1924									April 9, 1924	April 14, 1924 N
Florence avenue, from Allston street to Com- July monwealth avenue.	Bostonia avenue from Breck avenue to Regent road.*	Elizabeth avenue, from Allston street to Commonwealth avenue and outlet in Allston street.*	Foster street, from Commonwealth avenue to 1,200 feet northerly and outlet in Lane park.*	West Roxbury.	Garnett road and Quinn way	Cass street, from Powell sreet to Centre street	Cedarwood road, from Moss Hill road to about. 1,030 feet southerly and Bowditch road, from Mass Hill road to about 350 feet northwesterly.	Prospect street from Baker street to N. Y. N.  H. & H. R.R. and Moloney street, from Montgomery street to 135 feet southeasterly.	Grove street, from Washington street to Centre . street.	Grayfield avenue and outlet in Corey street, . Vermont street and private land.	Spring street brook, from Centre street to Landseer street.	Fowle street and outlet, from Board of Survey street 2244 to Rowe street.	La Grange street, from Vermont street to 500 feet southeasterly and outlet in Vermont street, from Merstreet to La Grange street.

\* Cost not complete.

# Sewerage Works, Construction, February 1, 1924, to January 31, 1925, Inclusive. - Continued.

Amount Expended in 1924.	1,302 07	1,957 02	2,123 65	135,443 01	2,511 15	12,959 59	1,949 74
Character.	10" pipe, sanitary. 10" pipe, catch-basin drain. 2 manholes.	10" pipe, sanitary. 10" pipe, surface. 10" cat-iron pipe, surface. 10" pipe, surface. 6 manholes.	10" pipe, sanitary3 nanholes.	29% concrete southers. 24% pipe, southers. 21% pipe, surface. 21% pipe, surface. 22% concrete conduit. 24% concrete conduit. 25% concrete conduit.	10" pipe, catch-basin drain 6 manholes. 5 catch-basins.	15" pipe, sanitary. 12" pipe, sanitary. 6 manholes.	10" pipe, surface. Catch-basin drain. 2 manholes. 2 catch-basins.
Length. (Feet.)	286 82 34	274.70 249.75 14 36.75	257.07	1,482.04 7561.50 7561.50 7561.50 7561.50 224.50 1,178 243 243 214 214 214 197 275.02 44.50	126.05	824.85 598.64	449.96 23
Built by.	April 16, 1924 A. Cefalo	DeCristoforo Brothers Company.	S. J. Tomasello	C. & R. Construction Company.	M. D. Russo	Zoppo & Civitares	Joseph Todesca
Finished.	April 16, 1924	May 23, 1924	May 26, 1924		Aug. 16, 1924	Oct. 15, 1924	Aug. 30, 1924
Begun.	3, 1924	, 9, 1924	, 16, 1924	v 13, 1924	8, 1924	7, 1924	13, 1924
	April	May	May	May	July	July	Aug
Location.	West Roxbury.— Continued.  Pondview avenue, from Moraine street to about 300 feet southerly.	Cataumet street, from Pond street to end of street 260 feet northerly.	Eliot place, from Eliot street to about 250 fect easterly.	Gernantown district and outlet in East street, Dedham.*	Iffley road, from Washington street to Walnut avenue.*	Weld street outlet in Montelair avenue, private land and Board of Survey street 1778 and 1779, from Merlin street and Weld street.*	Ethel street, from Augustus avenue to Malvern Aug.

	ırded.	† Advertised, not awarded	† Adverti		j.	* Cost not complete.	Cost	
336 75	10" pipe, sanitary	48.90	Joseph Todesca	30, 1924	Oct.	27, 1924 Oct.	Oet.	Louder's lane, from existing sewer to about 50 feet westerly.
1,993 56	10" pipe, sanitary. 10" pipe, surface. 10" east-iron pipe, surface. 6 manholes.	498.15 343.75 6	A. Cefalo	2, 1925	Jan.	8, 1924	Dec.	Roberts avenue, from Dent street to La Grange street.*
1,022 20	10" pipe, sanitary	225.40	James J. Conway	22, 1924	Nov.	6, 1924	Nov.	Hillside avenue, from Crandall street to 225 feet southerly.*
340 49	12" pipe, sanitary. Catch-basin drains. I catch-basin.	800 100 100 100	A. G. Tomascho & Son	17, 1924	Oet.	15, 1924	Oct.	Metropolitau avenue, from Washington street to dead end.
30,599 67	18" pipe, sanitary. 10" pipe, sanitary. 10" pipe sanitary. 21" controle surface. 22" controle surface. 23" controle surface. 24" pipe surface. 24" pipe surface. 25" pipe surface. 26" pipe surface. 27" pipe surf	2,221.34 380.55 381.50 381.55 381.55 386.13 10.55 11.31 11.31 11.31 11.31 11.31 11.31 11.31 11.31 11.31 11.31 11.31 11.31	John Williams & Co	15, 1925	Jan.	6, 1924	Oct.	Stellman road, private land, Bradeen street and Washington street.*
776 59	10" pipe, sanitary	274.55	C. Russo	28, 1924	Oet.	20, 1924	Oct.	Maynard street, from Metropolitan avenue to 260 feet southwesterly.*
2,185 83	10" pipe, sanitary.	800.55	M. DeSisto & Co	25, 1924	Nov.	21, 1924	Oct.	Newfield street and Lasell street, from Board of Survey street No. 1706 to La Grange street.*
1,513 34	10" pipe, sanitary	250.10	John Williams & Co	14, 1924	Aug.	22, 1924	July	Canterbury street, from existing sewer west of Angell street to 250 feet westerly.*
2,182 07	10" pipe, sanitary	175.66	Day labor	23, 1924	Oct.	9, 1924	Sept.	Vermont street, from Mt. Vernon street to 175 feet northeasterly.
35 50							:	Stony brook, section No. 10†
69 866	10" pipe, sanitary	142.15	John Guarino	25, 1924	$_{\mathrm{July}}$	16, 1924	July	West Roxbury Parkway, from Pelton street to about 135 feet southerly.
1,085 71	12" pipe, sanitary	201.15	John Guarino	7, 1924	Aug.	1, 1924	Aug.	Jamaicaway, from Pond street to 200 feet southerly.
19 00								Weld street, Parkvale road, Willowdean avenue and Realton road.†

Sewerage Works, Construction, February 1, 1924, to January 31, 1925, Inclusive. -- Continued.

Amount Expended in 1924.		\$61.68	98 96	405 71	516 61	55 68	5,197 11	2,235 36	2,744 65	58,284 24
Character.								10" pipe, sanitary. 4 manholes.	10" pipe, sanitary.	19" pipe, sanitary 10" pipe, carete sanitary 10" pipe, careth-basin drain.
Length, (Feet.)								394.28	191.50	8 10 303.51 303.52 537.99 10 10 11 11.60
Built by.								John Williams & Co	Joseph Todesca	V. Barletta
Finished.								April 29, 1924	June 28, 1924	
Begun.								April 8, 1924	April 7, 1924	April 28, 1924
Location.	Dorchester.	Allendale avenue, from Marsh street to 200 feet southeasterly.	Bates road, from Beaumont street to Elm road,	Collins street, from existing sewer to about 250 feet northwesterly.	Standard street, from River street to about 1,250 feet southerly.	Fremont place and extension, from existing sewer to 150 feet southeasterly.	Dorchester Brook sewer, east fork in East Cottage street and Humphreys street, from Norfolk avenue to Holden street.	Allendale avenue, from Marsh street 200 feet April 8, 1924 southeasterly; Lenoxdale avenue, from Milton street 130 feet southeasterly.*	Columbia park, from Lawrence avenue to April Hamilton terrace.	Dorchester Brook eswar, east fork in Humphreys April 28, 1994 street, from Holden street to Dudley street.*

Regina road, from Alpha road to about 275 feet April 23, 1924 May 16, 1924 Samuel J. Tomasello	April	23, 1924	May	16, 1924	Samuel J. Tomasello	363.30	363.30 10" pipe, sanitary	2,224 86
Harmon street, from Oakland street to about April 300 feet southwesterly.	April	9, 1924	May	15, 1924	George J. Regan	368.30	10" pipe, sanitary 2 manholes.	3,677 81
Hallowell street, from Oakland street to Neweskie street and outlet in private land from Favre street to Hallowell street.*	June	6, 1924		Sept. 30, 1924	M. DeMatteo	261.07 395.46 270.80 51.53 249.50	10" pipe, smitary. 12" pipe, sanitary. 18" D. S. pipe, sanitary. 12" pipe, surface. 4" 6" courrete conduit. 10 manholes.	11,326 39
Blue Hill avenue, from Harvard street 160 feet June southerly to 390 feet southerly.	June	6, 1924	June	24, 1924	6, 1924 June 24, 1924 A. D. Daddario	231.35	12" pipe, samtary. 1 manhole.	3,608 33
Colorado street, from Currier street to 315 feet   July northeasterly.*	July	28, 1924	Oet.	29, 1924	C. Russo	338.36 104.80 23.05	12" pipe, sanitary. 10" pipe, sanitary. 18" D. S. pipe, sanitary. 4 manholes.	5,966 22
Locust, street, from Washington avenue to July N. Y., N. H. & H. R. R.*	July	24, 1924		Sept. 16, 1924	M. H. Loonie	149.45 18 95.95	20" D. S. pipe, sanitary. 18" D. S. pipe, sanitary. 12" pipe, sanitary. 2 manholes.	5,167 24
Leston atreet, from Morton street to Woolson Aug. 13, 1924 street.*	Aug.	13, 1924	Sept.	5, 1924	L, Balboni	183.30 401.40 54	12" pipe, surface. 10" pipe, surface. 3 manholes. 5 catch-basin drain.	2,991 01
Mill street, from Victory road to Greenhill street.* Aug.	Aug.	25, 1924	Nox.	3, 1924	C. Iaeozza	499.50	12" pipe, sanitary.	3,591 09
New England avenue, from Taibot avenue to Aug. 18, 1924 Massusoit avenue.*	Aug.	18, 1924		24, 1924	Sept. 24, 1924 James J. Conway	351.30 36	10" pipe, sanitary. 10" pipe, catch-basin drain. 6 manholes. 3 catch-basins.	4,593 41
Itasea street, from 56 feet southwest of Currier street to 450 feet southwesterly.*		Sept. 25, 1924	Nov.	3, 1924	James J. Conway	404	12" pipe, sanitary 2 manholes.	3,440 61

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\* Cost not complete.

# Sewerage Works, Construction, February 1, 1924, to January 31, 1925, Inclusive. -- Continued.

Госатюва	Ř	Begun.	Fin	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1924.
Dorchester.— Concluded.								
Wilmington avenue, from Capen street 230 feet casterly and outlet in Capen street from Fairmont street to Wilmington avenue.*	Oct.	22, 1924	Dec.	3, 1924	C. Iacozza	431.10 152	12" pipe, sanitary 10" pipe, sanitary. 5 manholes.	\$3,278 31
Fairview street, from 80 feet south of Anisley street to 100 feet southwest.		Sept. 29, 1924	Oct.	Oct. 15, 1924	T. L. Pierce Company	125	10" pipe, sanitary	1,026 34
Myrtlebank avenue, from Milton street to 120 feet north.	Sept.	29, 1924	Oct.	8, 1924	D. F. O'Connell	150.60	10" pipe, sanitary1 manhole.	1,015 98
Adams street, from 110 feet southwest of Milton street to 150 feet southwest.	Oct.	11, 1924	Oct.	27, 1924	27, 1924 George J. Regan	149.50	10" pipe, sanitary	1,003 32
Denoxdale avenue, from 270 feet south of Marsh street to 145 feet southeast.	Oct.	9, 1924	Oct.	16, 1924	D. F. O'Connell	145.10	12" pipe, sanitary1 manhole.	1,047 59
Bownan street, from Blackwell street to Chickatawbut street.		Sept. 22, 1924	Oct.	18, 1924	Oct. 18, 1924 A. G. Tomasello & Son	104	12" pipe, surface	2,848 18
Adams street, from 168 feet north of Ashmont street to about 80 feet westerly.	Nov.	1, 1924	Nov.	4, 1924	T. L. Pierce Company	75	12" pipe, sanitary1 manhole.	913 06
Blackwell street, from Neponset avenue to about 100 feet westerly.	Aug.	7, 1924	Aug.	16, 1924	D. F. O'Connell	50 24	18" pipe, surface	1,129 06
Woodward Park street, from 46 feet northwest of Folsom street to 50 feet northwest.	Oct.	4, 1924	Oct.	25, 1924	John Guarino	49	8" pipe, sanitary1 manhole.	887 80
Fuller street, from Milton avenue to about 200 feet easterly		Nov. 17, 1924	Dec.	8, 1924	William Barrett & Co	197.05	12" pipe, sanitary	- 1,182 38
Alabama street, from Currier street to Elene street, and outlet in private land, from Colorado street to Alabama street.*	Nov.	Nov. 24, 1924	:		James J. Conway	380	12" pipe, sanitary	2,647 80

	159 68	2,029 24	5,761 23	2,855 05	755 85	5,040 59	1,851 97	1,141 90		58 42	134 02	9,282 86
		12" pipe, sanitary	10" pipe, sanitary. 12" pipe, sanitary. 12" pipe, sanitary. 12" pipe, sanitary. 12" pipe, sanitary. 9 manholes.	12" pipe, sanitary. 10" pipe, sanitary. 3 manholes.	S" pipe, sanitary 2 manholes.	12" pipe, sanitary. 10" pipe, sanitary. 10 nanholes.	10" pipe, sanitary	S" pipe, sanitary.				12" pipe, sanitary 12" D. S. Lipe, surface. 10" pipe, catch-basin drain. 7 manholes. 3 catch-basins.
		250.45	223 177 244.50 273.10 234.50	198 23.50	206.20	697 865.10	220.50	250.70				722.03 718.21 26
		L. Balboni	Zeppo & Civitares	A. D. Daddario	DeChristoforo & Brothers Company	C. Iacozza	George J. Regan	A. D. Daddario				A. Grande
		Oct. 11, 1924	Dec. 4, 1924	Nov. 15, 1924	Dec. 9, 1924	Dec. 30, 1924	Dec. 20, 1924	Dec. 20, 1924				May 31, 1924
_		Sept. 15, 1924 O	Oct. 20, 1924 D	Oct. 17, 1924 N	Nov. 20, 1924 D	Nov. 15, 1924 D	Dec. 1, 1924 D	Dec. 9, 1924 D				
HYDE PARK.	Warren avenne, from existing sewer 170 feet morthwared of Summit avenue to about 90 feet southeast; and Wilton street from 225 feet southeast of Hyde Park avenue to about 150 feet southeast.	Wood avenue, from Seminole street about 335 feet northwesterly to existing sewer.*	Arnold street, from Vale street to liver street; Vale street, from Linwood street to Arnold street, Linwood street, from Child street to Vale street; Child street, from Gordon avenue to Linwood street.*	Raiston road, rom Rustkin road to Rutledge coad.*	Cottage place, from Winslow street 142 feet southwest to 50 feet northwest.*			Agnes avenue, from River street to about 225 feet southerly.	ROXBURY.	Brookford street, from Dacia street to Rand street.	Fairland street, from Winthrop street to Moreland street.	Elm Hill avenue, from Seaver street to Schuyler April 7, 1924 street.

\*Cost not complete.

Sewerage Works, Construction, February 1, 1924, to January 31, 1925, Inclusive. - Concluded.

Amount Expended in 1924.	\$15,648 06	2,648 92	2,409 20	192 00	151 63	3,675 89	3,358 28
Character.	12" nipe, santary, "pipe, surface, 18" pipe, surface, 10" pipe, surface, 6 manholes, extrachobasin	203 S0 10" pipe, sanitary 203 S0 12" pipe, surface. 3 manholes	12" pipe, sanitary. 10" pipe, catch-basin drain. 3 manholes. 2 catch-basins.	15.50 10" pipe, sanitary			15" pipe, sanitary. 12" cast-ron pipe, sanitary. 10" pipe, sanitary. 8" pipe, sanitary. 10" pipe, catch-basin drain. 10" pipe, catch-basin catch-basin.
Length (Feet.)	1,021,64 383,37 683,86 50	203.80 203.80	362 35	15.50			11.50 8.17 18.50 6
Built by.	John Williams & Co	William Barrett & Co	C. lacozza	J. J. McCarthy & Co			C. & R. Construction Company.
Finished.	Aug. 16, 1924	Aug. 27, 1924	Aug 25, 1924	Oct. 2, 1924			Fcb. 2, 1924
Begun.	June 2, 1924	July 21, 1924	Aug. 12, 1924	Sept. 29, 1924 Oct.			Jan. 18, 1924
Г.ослтох.	Roxburne. Continuel. Harrishof street, from Warren street to Humboldt avenue. *	Mark street, from Day street to 203 feet July 21,1924 Aug. 27,1924 easterly. *	Subsister street, from Mozart street to Wyman Aug. 12, 1924 Aug. 25, 1924 C. lacozzastreet.*	Harold street at Howland street	CITY PROPER. Alley 711, from Waltham street to Hanson street.	Catch-basins, manholes and minor drains	Post Office square, from Water street to Bath Jan. 18, 1924 street; Bath street from Post Office square to about 91 feet southeasterly.

365 82	1,683 21	189 71	7,688 52	27,942 06	9 50	3,717 27
			197 20 24" D. S. pipe, cantrary, 10" pipe, catch-basin drain, 5 ettel-basins.	10" pipe, catch-basiu drain. 14 manholes. 64 catch-basins.		31.30 15" pipe, sanitary. 30.30 18" pipe, sanitary. 1 manhole.
			167.20 95	1,037		31.90 36.30
			M. H. Loonie	M. H. Gaddis	Advertised, not awarded	Day labor
			June 7, 1924	July 22, 1924		Nov. 13, 1924
			April 4, 1924	April 29, 1924		Sept. 3, 1924
Salem place, from Salem street to about 53 feet westerly, and outlet in Salem street, from Salem place to Cross street.	Florence street, from Harrison avenue to Washington street.	Public Alley 541, from Public Alley 542 to about 75 feet northwesterly.	Congress street, from Atlantic avenue to April 4, 1924 June 7, 1924 M. H. Loomic	Shawrau avenue from Warrenton street to April 29, 1924 July 22, 1924 M. H. Gaddis	Public Alley 544, from Public Alley 543 to Carleton street.	Gr Boylston street at Ipswich street Nept. 3, 1924 Nov. 13, 1924 Day labor

\* Cost not complete.

### Recapitulation.

District.	Linear Feet Sewers.	Linear Feet Catch-basin Drains.	Manholes.	Catch-basins.	Amount Expended.
South Boston	521 17		3		\$7,748 06
East Boston	1,763 14		12	9	33,605 06
Charlestown	160 10		1		2,095 30
Brighton	6,913 14	174	40	10	65,070 25
West Roxbury	21,610 23	408 05	134	23	251,168 76
Dorchester	8,776 65	245	63	18	133,164 69
Hyde Park	3,863 55		31		19,595 51
Roxbury	4,314 21	111	19	10	30,373 48
City Proper	279 57	1,135	17	70	48,781 89

## Sewerage Works Construction, February 1, 1924, to January 31, 1925, Inclusive.

New Catch-basins and Manholes built by Day Labor and Contract.

District.	Catch-basins.	Manholes.	Total Cost.
South Boston	12	10	\$9,156 3-
East Boston	6	1	2,640 69
Charlestown	4	5	4,052 53
Brighton	10	8	4,410 08
West Roxbury	25	7	10,839 94
Dorchester	63	10	19,822 09
Hyde Park	9	1	3,941 52
Roxbury	59	16	29,019 71
City Proper	24	34	26,883 04
Totals	- 212	92	\$110,765 97

## SEWERAGE WORKS LOAN, 1924-25.

Engineers' salaries,	general .				\$100,013	υə
Amount charged to	construction	of s	sewers		23,609	00

\$129,622 05

\$18,000 00

	$\mathbf{E}$	NGIN	VEER	ING	Expi	ENSE				
Labor									\$2,592	31
Teaming .									805	
									1,414	
Borings :									2,059	
Transportation										
Supplies, etc.						٠			4,937	10
									\$11,808	30
P	UMPIN	ig S	STATI	on (	ons	TRU	TION			
Advertising									\$8	50
Labor .	Ċ								1,878	65
									10,233	
Professional ser	vione								857	
Materials, etc.						•			2,010	
Materials, etc.			•				•		2,010	-
									\$14,989	43
			Sur	NDRII	ES.					
Labor									\$1,462	76
Paving service									126	30
Material .	•	•							35,206	
material .								•		_
									\$36,795	15
Less material cl	20.2000	4 +0	ioba						36,190	
Less material ci	large	1 10	Jous	•			•		50,150	99
									\$604	46
COURT EXECUT	PLONE	AN	n A	WAR	ns o	× 4	CCOL	XT	OF LAN	D-
COURT EXECU	HONS		TAKL					74.7	OI LAN	D-
			TAKI	NGS,	EI(	•				
J. J. Kelleher, C									\$500	
Fred H. Plouff,	Rive	r str	eet,	$_{ m Hyde}$	e Par	:k			500	00
C. & R. Const	ructio	n (	Com;	any.	. Mu	iddy	rive	r		
conduit, cont									17,000	00

## Sewerage Works, Charles River Basin. Expenditures February 1, 1924, to January 31, 1925.

Accounts.	l abor.	Paid to Contractors.	Total.
Engineers' salaries	\$1,525 09		\$1,525_09
Sewers built in entire city	1,471 54	\$47,573 93	49,045 47
Totals	\$2,996 63	\$47,573 93	\$50,570 56

Sewerage Works, Charles River Basin, Construction, February 1, 1924, to January 31, 1925, Inclusive.

Amount Expended in 1924.		\$815 21	40 89	391 55	237 57	91 84		239 08	59 13	86 28	70 31	237 04	247 36
Character.													
Length (Feet.)		i									:		
Built by:													
Finished.						:							
Begun.										1			
Location.	Вянентом.	Colonial road and outlet in Board of Survey street No. 2396, Union street and Shepard street.	North Harvard street, from Kinglsey street to a point about 100 feet northerly.	Scottfield road from Commonwealth avenue to Warren street.	Sorrento street, from Hopedale street to Eaton . street.	Wirt street, from Henshaw street to Washington street.	West Roxbury.	La Grange street, from Vale street to Sunmit . street about 1,060 feet northerly.	Plainfield street, from Brook street to about 220 feet northwesterly.	Jamaica place, from Arborway to end of Jamaica place.	Hyde Park avenue, from Wyvern street to about 150 feet southerly.	Curley street, from Paine street to about 185 feet northerly.	Midvale road, from Hodgdon terrace to Corey street.

1,992 24	666 42	8,051 07	24,730 42	5,781 82		183 23	3,611 30		177 51	865 53	274 54		185 13
10" pipe, sanitary			12" pipe, samitary6 manholes.	10" pipe, sanitary			10" pipe, sanitary	2 manholes.					
15.35			934.50	1,302			83.10 102.40 7.00						
A.Grande			V. Barletta	V. Barletta			George J. Regan.						
Feb. 9, 1924		4, 1923 April 9, 1924	Sopt. 20, 1924				Feb. 14, 1924						
e. 1, 1923			b. 11, 1924	v. 3, 1924			Nov. 22, 1923						
New Haven street, from 500 feet south of North   Dec. 1, 1923 Feb. 9, 1924   A.Grande	Wright road, from Upland street to North avenue.	Union terrace, from Morton street to Forest Hills Dec. avenue.	Weld street, from Board of Survey street No. 1799 Feb. to Parkvale road.	Weld street, from Parkvale road to Church street; Nov. Parkvale road and Church street, from Weld street to 150 feet southeast of Parkvale road.*	Dorchester.	Hosmer street, from Norfolk street to 167 feet northwesterly.	Floyd street, from 450 feet southwest of Lucerne Nov. street to Callender street.	RONBURY.	Public Alley No.937, from Boylston street to about 133 feet southerly.	Public Alley No. 938, from Ipswich street to Ipswich street.	Silva place from Munroe street to about 134 feet southerly.	Стту Ряорея.	Stuart street, from Washington street to Columbus. avenue: Eliot street, from Stuart street to Broadway.

\* Cost not complete.

## Recapitulation.

District.	Linear Feet Sewers.	Linear Feet Catch-basin Drains.	Manholes.	Catch-basins.	Amount Expended.
Brighton					\$1,577 06
West Roxbury	2,506.98		19		42,171 17
Dorchester	192.50		2		3,794 53
Roxbury					1,317 58
City Proper					185 13

## Catch=basins in Charge of Sewer Service.

		CH-BASIN DATA		TOTAL FOR WHOLE CITY IN CHARGE OF SEWER SERVICE,			
DISTRICT.	Number Built or Rebuilt.	Number Abandoned or Removed.	Net Increase.	Previous Report to February 1, 1924.	Grand Total to February 1, 1925.		
City proper	68	55	13	3,295	3,308		
Roxbury	95	57	38	2,895	2,933		
South Boston	12	5	7	1,267	1,274		
East Boston	15	2	13	901	914		
Charlestown	4		4	768	772		
Brighton	20		20	1,318	1,338		
West Roxbury	48		48	2,252	2,300		
Dorchester	81	37	44	3,563	3,607		
Hyde Park	9		9	391	400		
Totals	352	156	196	16,650	16,846		

## Summary of Sewer Construction for Twelve Months Ending January 31, 1925.

DISTRICT.	Built by City by Contractor or Day Labor.	Built by Private Parties.	Total Leng	gth Built.
	Linear Feet.	Linear Feet.	Linear Feet.	Miles.
City proper	205.57	287.50	493.07	0.093
Roxbury	4,382.41		4,382.41	0.830
South Boston	521.17		521.17	0.099
East Boston	1,929.14	2,036.77	3,965.91	0.751
Charlestown	160.10		160.10	0.030
Brighton	6,912.64	506.91	7,419.55	1.403
West Roxbury	24,207.16	1,344.10	25,551.26	4.839
Dorchester	8,527.15	391.60	8,918.75	1.689
Hyde Park	3,863.55		3,863.55	0.732
Totals	50,708.89	4,566.88	55,275.77	10.468

Net Increase in Length of Sewers Between February 1, 1924, and January 31, 1925.

District.	Length of Sewers Built During the Twelve Months ended January 31, 1925.	Length of Sewers Re- built or Abandoned During the Twelve Months ended January 31, 1925.	Net Incre Twelve Moi January	
	Linear Feet.	Linear Feet.	Linear Feet.	Miles.
City proper	493.07	423.90	69.17	0.013
Roxbury	4,382.41	77.90	4,304.51	0.815
South Boston	521.17		521.17	0.099
East Boston	3,965.91	424.10	3,541.81	0.671
Charlestown	160.10		160.10	0.030
Brighton	7,419.55		7,419.55	1.405
West Roxbury	25,551.26	426.00	25,125.26	4.758
Dorchester	8,918.75	1,120.65	7,798.10	1.477
Hyde Park	3,863.55		3,863.55	0.732
Totals	52,803.22	10.000		
Total L	Miles.			
Common sewers and surface drain	024	971.29		
Net increase of common sewers an and January 31, 1925				10.00
Total common sewers and su	rface drains to	January 31, 1	925	981.29
Intercepting sewers connecting w				6.81*
Boston main drainage interceptin			1	24.12 *
Grand total of common and i	intercepting se	wers to Januar	y 31, 1925	1,012.22
Total mileage of streets contain	ining sewerage	works to Febr	iary 1, 1925,	597.03

<sup>\*</sup> No addition during 1924.

Summary of Sewer Construction for Five Years Previous to February 1, 1925.

	1920.	1921,	1922.	1923.	1924.
	Linear Feet.	Linear Feet.	Linear Feet	Linear Feet.	Linear Feet.
Built by eity by contract or		37.115.48	63,156,54	41.076.39	50,708.8
Built by private parties	12.00	279.18	1.641.30	2.609.10	4.566.8
Totals	42,553.12	37,394.66	64,797.84	43,685.49	55,275.7

## Sewage Statistics for Year Ended January 21, 1925.

Month.	Total Pumped Gallons.*	Average per Day Gallons.	Minimum per Day Gallons.	Maximum per Day Gallons.	Aver- age Lift, Feet.	Average Duty Foot- pounds per Gallon of Oil.
1924.						
Febraary	2,601,398,738	89,703,370	76,371,754	113,552,958	35.6	7,500,000
March	3,464,154,266	111,746,918	77,110,783	141,088,605	35.5	7,800,000
April	3,467,092,220	115,569,740	85,073,797	150,134,735	35.6	7,800,000
May	3,565,556,856	115,017,963	\$5,388,831	153,427,544	35.5	8,100,000
June	3,220,712,080	107,357,069	86,457,126	133,581,353	35.6	8,200,000
July	2,646,363,489	85,366,532	56,246,839	111,581,798	35.7	7,900,000
August	2,597,777,991	83,799,290	65,117,047	156,562,167	35.7	7,800,000
September	3,106,235,317	103,551,177	76,481,467	123,447,894	35.6	7,700,000
October	2,694,435,960	86,917,289	70,232,474	108,423 518	36.0	7,200,000
November	2,374,462,701	79,182,090	59,748,846	131,340,528	36.5	7,200,000
December	2,818,223,072	90,910,422	75,891,398	122,354,514	36.0	7,500,000
1925.						
January	2,959,900,679	95,480,667	67,160,836	146,051,605	36.0	7,700,000
Totals	35,517,312,572				129.3	
Averages	97,317,706				35.8	

<sup>\*</sup> Gallons pumped based on displacement. Total gallons of oil burned from February 1, 1924, to January 31, 1925, inclusive -1,322,170.

## Cost of Pumping.

ITEMS.	Cost.	Cost per Million Foot Gallons.
Labor	\$72,482 80	\$0 05954
Gallons of fuel oil	58,175 48	04778
Oils and waste	2,886 90	00237
Rubber valves and packing	2,026 66	00166
Miscellaneous renewals and supplies	25,871 15	02125
Totals	\$161,442 99	\$0 13260
Labor and screens.	\$7,510 00	\$0 00618

## Sewage Statistics for Year Ending January 31, 1925.

Мохти.	Cheeses.	Weight. (Pounds.)
1924. February. March April May June July August September October November December	331 182 253 159 148 234 231 179 242 237 232	75,271 43,862 60,973 38,319 25,669 56,394 55,671 33,139 58,332 57,117 55,912
January	283	68,203 628,862

 $314\frac{167}{2006}$  tons. Averages 241 pounds to cheese.

Sludge Received and Removed in Deposit Sewers, Calf Pasture, 1924.

Sludge in sewers Februar	y 1,	192	4	2,694 c	ubic :	yards
Received during year				1,966	ш	"
				4,660	u	"
Removed during year					"	u
Sludge in sewers Februar	v 1.	192	5	${1.677}$	u	u

## SANITARY SERVICE.

Financial Statement.	22 000 448 84
Appropriation Expended by Sanitary Service \$1,931,188 36 Expended by Street Cleaning and	\$2,898,443 36
Oiling Service	2,852,373 69
. Transferred to other departments and services, $% \left( \frac{1}{2}\right) =\left( \frac{1}{2}\right) \left( $	\$46,069 67
Income.	
Statement showing amount in cash and b with the City Collector from February January 31, 1925, and credited to general	1, 1924 to
Tickets and bills for the removal of ashes and waste	\$104,645 85 3,507 00 88 32
Total	\$108,241_17
Amount Paid into the City Treasury Year.	DURING THE
Removal of ashes and waste Sale of manure	\$104,656 74 3,059 08 1 00
	<u>8107,716</u> 82
Total Cost of House Dirt, Waste, Rubbish and	Offal, 1924.
Salaries, division engineer, supervisor, general foreman and medical inspector Office supplies and expenses, printing, sta-	\$16,196 11
tionery, etc. Ashes, waste and rubbish account House offal account	$\begin{array}{r} 3,553 \ 97 \\ 1,215,877 \ 62 \\ 574,517 \ 79 \end{array}$
Carried forward	\$1,810,145 49

Brought forward Retired veterans' per Retired laborers' per	nsions .	\$1,651 7,938	
Kettred laborers per	usions .	. 1,956	9,589 58
Total			. \$1,819,735 07
Construction Ri	EPAIRS AN		E-
Expended for labor Expended for stock		. \$84,523 . 35,813	
Expended for stock		. 55,015	120,354 53
Work Done F	or Othe	R SERVICES.	\$1,940,089 60
~ ~ .		. \$6,147	
Sewer Service . Water Service .		. 1,315 . 1,437	
water betvice .		. 1,101	8,901 24
Total			\$1,931,188 36

## Items of Expenditure for the Year 1924-25.

Salary, division engineer (in part)	\$1,666 67
Salary, supervisor (in part)	
Salary, medical inspector (in part)	1,029 14
Salary, chief veterinary (in part)	1,125 00
Salary, foremen	20,307 71
Salaries, vard clerks	3,475 23
Labor, collecting and disposing of house dirt and ashes	603,272 69
Labor, collecting and disposing of waste and rubbish	38,533 03
Labor, collecting and disposing of house offal	340,763 69
Labor and stock at stables and vards	84,091 06
Hired teams on ashes	69,919 95
Hired teams on ashes	244,684 00
Hyde Park.	
Contractor on offal, East Boston, Brighton, West Roxbury, Dorchester and	123,500 00
Hyde Park.	
Holidays, pay allowed	87,324 46
Vacations, pay allowed	27,555 $25$
Grain	
Hay and straw	
Medical attendance and pay allowed injured employees	13,387 26
Veterinary services and medicines	320 65
Outside wheelwright, blacksmith, horseshoeing, etc	31,157 75
Labor, stock and wheelwright, blacksmith, painting, etc	97,744 05
	31,388 58
Fuel	
Gas	
Electric light and power	3,486 26
Printing, stationery, office supplies, etc	3,938 90
Automobile expense	34,152 18
Retired veterans' pensions	1,651 29
Retired laborers' pensions	
Rent	
Telephone tolls and rentals	700 68
Total	\$1 031 188 36

Amount Expended for the Collection and Disposal of Ashes, Garbage, Waste and Rubbish, by District, 1924-25.

-	Dyservers	Popula-	Ashes	ES	GARBAGE.	AGE.	Waste and Rubbish	Втвызн.		Total Cost
	· Control of	tion.	Cost.	Per Capita.	Cost.	Per Capita.	Cost.	Per Capita.	Total Cost.	per Capita.
ij.	1. South Boston	72,878	\$73,766 43	\$1.0122	828,188 00	\$0.3868	\$667.50	\$0.0091	\$102,621 93	\$1.4081
લાં	East Boston	65,924	49,480 91	0.7505	12,696 92	0.1926			62,177 83	0.9431
3.	Charlestown	35,833	45,703 40	1.2475	12,932 58	0.2361			58,635 98	1.4386
4;	Brighton	44,620	50,170 89	1.1397	33,070 84	0.7502			83,241 73	1.8909
ō.	West Roxbury	826,09	43,699 39	0.7172	29,626 11	0.4862			73,325 50	1.2034
9.	Dorchester	161,905	149,240 63	0.9217	83,450 92	0.5154			232,691 55	1.4371
7:	7. Roxbury	128,771	192,587 01	1.4956	78,320 19	0.6082	11,104 04	0.0878	282,011 24	2.1916
8	S and 9. South End and Back Bay	117,755	246,494 90	2.0933	89,811 17	0.7627	45,554 32	0.3878	381,860 39	3.2438
10.	North and West Ends	74,736	109,223 70	1.4615	26,216 46	0.3494	10,559 21	0.1414	145,999 37	1.9523
11.	Hyde Park	19,340	7,958 79	0.4115	4,858 79	0.2512			12,817 58	0.6627
13.	Disposal station		176,950 83		175,345 81				355,142 45	
:	Totals	782,090	\$1,145,276 88		\$574,517 79		870,730 88		81,790,525 55	

### House Dirt and Ashes Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1920	288,646	891,042	363,097
	264,244	967,955	394,435
	272,245	1,025,555	417,915
	280,448	1,065,625	434,234
	276,818	1,099,636	448,094

### House Offal Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1920	40,881	100,865	59,507
1921	47,711	118,237	69,182
1922	44,860	110,555	71,175
1923	50,115	127,052	74,962
1924	50,584	142,822	84,264

### Waste and Rubbish Removed.

	Lo	ADS.	Civi	
YEARS.	Paper Carts.	Market Wagons.	Cubic Yards.	Tons.
1920 1921 1922 1923 1924	3,794 3,295 2,850 1,924 1,901	2,717 2,306 4,055 4,589 4,601	47,949 52,224 54,071 53,409 53,443	5,641 6,144 6,455 6,394 6,390

## Loads of Material Collected from February 1, 1920, to January 29, 1925.

YEARS.	Ashes.	Offal.	Rubbish.	Total Loads.	Tons.
1920	238,646	49,881	6,511	286,038	428,245
	264,244	47,711	6,786	318,741	469,961
	272,245	44,860	6,905	324,010	495,545
	280,448	50,115	6,513	337,076	515,590
	276,818	50,584	6,502	333,904	538,748

Collected by Contract.

		Ash	Ashes.				OFFAL.		
Districts.	Double Loads.	Auto Loads.	Cubic Yards.	Tons.	Single Loads.	Double Loads.	Auto Loads.	Cubic Yards.	Tons.
East Boston	13,315	796	74,535	30,373		1,083		3,791	2,237
Brighton	:	6,729	67,290	27,420		3,132		10,962	6,468
West Roxbury	8,025	1,145	51,575	21,016		369	682	9,182	5,417
Dorchester	35,335	8,581	262,485	106,962	699	7,408	:	30,322	17,890
Hyde Park	3,001	21	15,215	6,200	:	624		2,496	1,472
Totals	59,676	17,272	471,100	191,971	699	12,616	189	56,753	33,484

## Summary.

Material. ,	Cubie Yards.	Tons.
Ashes	471,100	191,971
Offal	56,753	33,484

## Final Disposition of all Material in Loads and Tons (2,000 Pounds). Collected by the Sanitary Service, February 1, 1924, to January 29, 1925.

Class of Refuse.	Coleman Disposal	Company.	COLLECTED AND	CONTRACTORS.	L Loads.	L Tons.
	Loads.	Tons.	Loads.	Tons	TOTAL	Total
House dirt and ashes	243,786	363,085	33,032	85,009	276,808	448,094
Offal	44,587	68,670	5,997	15,594	50,584	84,264
Waste and rubbish	6,502	6,390			6,502	6,390
Total	294,875	438,145	39,029	100,603	333,904	538,748

... \$1,931,188 36

Net amount of appropriation

Cost of Collection and Disposal of Refuse by Contract in the City of Boston for the Year 1924-25.

Contract Districts	į	Tons,		Cost per Ton	°C	Cost per Districts.	.g.	
and Population.	CHARACTER OF REFUSE.	(2,000 lbs.)	Tons.	by Districts; Collection and Disposal.	Cost.	Total Cost.	Total Cost per Capita.	Where Disposed of.
2(65,924)	(Mixed refuse, principally ashes (no kitchen wastes)	30,373		\$1 6291	\$49,480 91			Inland dumps
	Garbage, principally kitchen wastes	2,237	39 610	5 6758	12,696 92			
	[Mixed refuse, principally ashes (no kitchen		010,20	Av. \$1 9065		862,177 83	\$0.9431	*
4(44,020)	wastes)	27,420	:	\$1 8297	\$50,170 89			Inland dumps.
	Garbage, principally kitchen wastes	6,468	353 666	5 1129	33,070 84			
	(Mixed refuse, principally ashes (no kitchen		000,000	Av. \$2 4562		83,241 73	1 8909	*
5(33,906)	wastes)	21,016		80 8649	818,177 44			Inland dumps
	Garbage, principally kitchen wastes	5,417	96 499	2 7375	14,829 35			*
	(Mixed refuse, principally ashes (no kitchen		20,100	Av. \$1 2485		33,006 79	0 9735	
6.(161,905)	wastes)	106,962		\$1 5824	\$169,240 92			
	Garbage, prncipally kitchen wastes	17,890	191 029	6 0627	108,450 63			
	[Mixed refuse, principally ashes (no kirchen		700'171	Av. \$2 2241		277,691 55	1 7152	Coleman Disposal Co. †
11. Hyde Park (19,340)	wastes)	6,200	:	\$1 2836	\$7,958 79		0 6627	Inland dumns
	Garbage, principally kitchen wastes	1,472	7 699	3 3008	4,858 79	i i		
325,095	Totals		100	Av. \$1 6663		12,817 58		*
			0/4/027			\$468,935 48	\$1 4425	
	* Removed beyond city limits and presumably fed to swine.  Total as above:	id city lin	iits and pr	esumably fed to	swine.		8468 935 48	
	Add total of day labor table (between pages 168 and 169).	ween ра <u>в</u>	es 168 and	169)			1,462,252 88	

#### Cost of Collection and Disposal of Refuse by Day Labor Force in the City of Boston for the Year Ending January 31, 1925.

			C	OST PER TON	BY DISTRICTS.		1		Cost of I	Districts.			
Districts and Pop- ulation	CHARACTER OF REFUSE.	Tons (2,000 lbs).	Total Tons	To Collect	For Disposal.	Total Collection and Disposal	Ta Collect.	Total Cost to Collect.	For Disposal.	Total Cost of Disposal.	Total Cost of Collection and Disposal.	Total Cost per Capita, Collection, and Disposal.	WHERE DISPOSED OF.
	(Mixed refuse, principally ashes (no kitchen wastes)	36,253		82 1451	\$0 0704	82 9928	\$75,215 61		\$2,550 82				Coleman Disposal Company.
1 (72,875)	Garbage, principally kitchen wastes	5,451		5 446		5 4468	29,688 00						Coleman Disposal Company.
	(Store refuse, principally paper	114	41,818	5 85%		5 8552	667 50						Coleman Disposal Company.
		-	41,818	Av. \$2 5855	Av. 80 0704	Av. \$2 6559		\$105,571 11		\$2,550 82	\$108,121 93	\$1 4830	
	(Mixed refuse, principally ashes (no kitchen wastes)	22,591		82 1116	\$0 0127	\$2 1543	\$47,703 43		\$964 21				Coleman Disposal Company.
3 (35,833) .	Garbage, principally kitchen wastes	1,320	24,411	7 6998		7 6988	13,932 58	60.671 77			C1 625 06	1 4410	Coleman Disposal Company.
			24,411	Av. \$2 5249	Av. \$0 0427	Av. \$2 5676		60,671 77		904 21	01,050 90	1 4410	
	Mixed refuse, principally ashes (no kitchen wastes)	65,693		83 7413	\$0.0450	\$3 8162	\$245,773 77		\$2,998 00				Coleman Disposal Company.
5 (part) and 7 (155,793)	Garbage, principally Litchen wastes	19,511		5 33%		5 3363	104,116 95						Coleman Disposal Company.
(100,100)	Store refuse, principally paper.	5/99	86.092	12 6025		12 6029	11,104 04	360,994 76		2 008 00	262 002 76	2 3364	Coleman Disposal Company.
			30,010		Av. \$0 0450	Av. \$4 2729		300,054 10		2,556 00	800,002 10	2 3302	
	Mixed refuse, principally ashes (no kitchen wastes) .	79,020		\$3 4811	\$0 0161	\$3 4582	\$275,155 45		\$1,339 43				Coleman Disposal Company.
8 and 9 (117,755)	Garbage, principally kitchen wastes	16,408		5 92%	0 1538	6 0832	97,287 02		2,524 13				Coleman Disposal Company.
	Store refuse, principally paper	4,179	990607	10 9008	<u></u>	10 9008	45,554 32	417,996 79		2 000 00	101 000 20	2 6710	Coleman Disposal Company.
			33,001	Av. 84 4963	Av. 80 0405	Av. 84 2368		417,000 70		3,505 00	421,300 30	3 3/40	
	Mixed refuse, principally ashes (no kitchen wastes).	52,536		82 1551		\$2 1551	8123,366 15						Coleman Disposal Company.
10 (74,736)	Garbage, puncipally kitchen wastes	7,590		3 6571		3 1571	27,716 46						Coleman Disposal Company.
	Store refuse, principally paper	1,208	61.234	\$ 741		8 7413	10,559 21	161,641 82			161 641 85	2 0271	Coleman Disposal Company.
			1 112,009	Av. \$2 45.7		Av. \$2 4537		101,041 02			101,041 02	2 02/1	
*	Coleman Disposal Company									345,000 00	345,000 00		
456,995	Totals		013,263	Av. \$3 533	Av. \$1 1344	Av. \$4 6678		\$1,106,876 23		\$355,376 63	\$1,462,252 88	\$3 1778	

\* The amount paid to Celeman Disposal Company is for disposal of all refuse collected by the city force and Dorchester contracts.

District 6 on page 1-8

Total as above. \$1.462.225 88

Add total of contract table, page 168. \$48,935 48

Coleman Disposal Company's contract calls for \$345,000 per year.



# 

Details of Collected Refuse in Boston for the Year Ending January 29, 1925.

							+ )	1.7		7	T ++	1 -	* ( )	Dista	Not	212	St with	Turbs.	Cohe	De alla	Cata in	nade 7	10	Total Control	T -	Total	7.00	of Ireda	P-md	Tesa	T ==	of Loads	Pront	in Total	T 4*	Loads	7.00	Lends	Tons
				1.41					23/0						1				1 (cile	1.620	7.40	1100	9.9	1 833				_	-	-	-			+-	1			-	-
										7 .		99.4															2.421	77	1.00	1		, ,	8 2.504	0 11	61	130	114	36 631	11 51
- 1-1						2.0					41.77.1			1083			3.5		3.791	11153	1794				2.237		2,237									1		15.191	33.69

		10.00	***			5.0		9.240 FG20 9.249 1.150	9 9 1858	3.431	n i i i i i	20 18 2,000			
				*1.771				3791 1083 1791		343	2 1 909		11 64 130		
- 1-1					2011	1114.1				2.24				13.191	37.60
		11						7484 1742 Dist	1 520	1 520				20 715	21,41
4 Deute	Heg) (00x1)	15,744	12.00	.7 1,0	-1 kg	1114		10.962 1.132 1.0.962		o litch G lines				9.46	32,86
				.100		169 283	1.5 10	9192		- 417		Li	14 1 13	11	
A 1 -7	25 to 1100 t	100	4 M 15 July 19	1.50-	4.000	130 130		1270	2.172	7 49				16.62	37.01

		The second second	The state of the s	7 199 192 199	1 120				23 : 15 24,411
4 Bruce	1040 (000) (15)	po literati artes alturat i	J. Liu J. Liu	4 10962 1132 10962	9.85	6 Ins			9 561 33,868
A 1 27	2,100	P. T. Lea Sales	1000 100 100 100 100 100 100 100 100 10	1 1 10 9100 2 3ell 2507 1274	2 1,2	6 fee 7 yes 17 yes 445	La	11 13 11	16 678 37 050
Development	0.15er ( 0)	to die out to de la contraction de la contractio	to all tone, all 7 sec	10 22" 8 027 0 129	* 17 8.80	17.500 465	301 513	164 918 673	51,903 124,632
			44.17 March 1974	1.2 0.122 1.011 1.022	17.00				

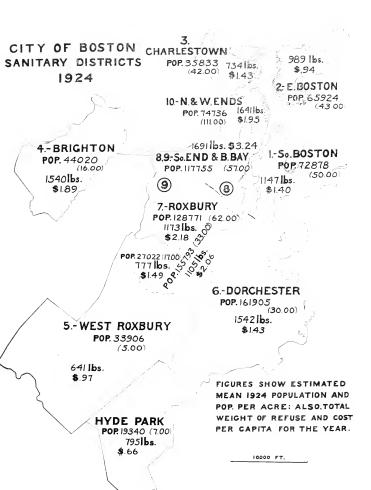
A 1 27		Tri Ar	. 1 min (4.9 28)	2 1611 7507	- 417	Li Li	14 13 14
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to a more than	CONTRACT OF THE CONTRACT OF TH	10 Jay 10 10 10 10 10	toring toring, ago, 7 6%	10 27 8 677 9 129	* 17 530 17,590 443	311 511	164 958 675 51,993 124,632
* 1	18 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second	40.17 (6.8)7 (7.19) 5.127 (7.0)	4.5 29.157 4.631 29.677	17 69 L3M	960 2,919	3210 1303 1179 42341 75,546
	01 No. 1 155 -5	P 19124	A7 A 2010 PR 103 170 A 20	4 35 to 25 1184 280	0 244	1,449	1,266   1096   1206   76,133   19 607

Device (CO.)	0.1 mm   4 mm	to give a the taggle	tea.	mil terrie, no. 7 ers	10 27 8 077 9 429	* 17 8.00	17.890 44	801 513	184 938	675 51,5	903 12
* 6 * *	(F)	42 190 4	40.17	Ture 107 766	4.5 C 29.157 NO.11 29.677	17 (0+	17 379 1.35	968 2,919	3,210 1.303	1 179 42 /	341 7
	ICT No.	S Tell of them	87 S 26 July	Printer Library & All and a	10   17   8077   9142   17   17   17   17   17   17   17   1	Di 244	16 405	1,009	1,266 1 1098	1.206   76.1	153 >

1 1 1	Bit I	41 194 4	36.837	1.10 1127 76	C 2910 400 294	12 429	17 37e L35d	960 2,919	3,210 1.303 1.179	42 341 75
	0 1 No. 1	S 32	AT 5	79 (A) 17 (B) 18 (B) 2	3 \ 10 27 333 11 64 27 811	0+244	16.1 16.40%	1,009	1,266   1098   1206	76.333 39

	14 - 1	As -		1.60	30. 431					D. 250 F.341	360 2,919	3,210 4.	0.8 1 179	92 391 2	3,346
	16.1	# 165 E	5 92.	14491	24 T N 24 TH	29 1031 FEB 100 10	4 11	In 27 533 In 278 11 84 27 811	Dr 244	164 16405	1,009	1,266	96 1.206	76.133	×9 607
1 Tark 11 to 1	5/7 - 1 × ×		75.4		41.501	1.1%	2	12 94 1 6 4 42 12 94 1	7 90						





## SEWER AND SANITARY DIVISION—STREET CLEANING AND OILING SERVICE.

General Administration:		
	\$1,605 51	
Salary, supervisor (in part)	9,000,00	
Salary, general foreman		
Pensions, retired veterans	$\frac{4,337}{7,142}$ $\frac{31}{70}$	
Pensions, retired laborers		
Annuity, Acts of 1920 — chapter	coo oo	
132 Salary, medical inspector	600 00	
Salary, medical inspector		
Salary, chief veterinarian	1,000 00	
Stationery	427 70	
Telephone	081 78	
Printing	940 60	
Injured employees	5,322 59	
Miscellaneous	289 30	
Auto repairs and maintenance .	2,093 60	
		\$28,249 51
General expenses other than general	adminstration	:
Wages, stablemen	\$48,086 66	
Wages, stablemen	10,352 65	
Wages, watchmen	5,796 94	
Wages, foremen's driver	664 52	
Wages, clerks and messengers .	664 52 6,600 06	
Hay and straw	26,808 48	
Grain	19,393 83	
Electric light	223 74	
Electric light . Veterinary service and medicines,	443 31	
Horseshoeing	3,611 85	
Harnesses, etc.	614 39	
Harnesses, etc	561 72	
Horses		
Care of horses	9.00	
Horses	$900 \\ 283 \ 33$	
Stable and yards, rent of Stable and yards, supplies	1 701 95	
Stable and yards, supplies Stable and yards, building repairs,	$\begin{array}{c} 1,701 & 95 \\ 2,059 & 84 \\ 4,313 & 16 \end{array}$	
Auto panaina and maintenance	4,313 16	
Auto repairs and maintenance .	4,515 10	138,525 43
Occuption		100,020 40
Operating expenses:	\$18,520 18	
Salaries, district foremen	50.501.00	
Salaries, inspectors	490,091 98	
Wages, laborers	438,143 70	
Hired autos	14,246 50	
Holidays and pay allowed	58,748 29	
~	2500.250.25	0100 551 01
$Carried\ forward\ .$	\$580,250 65	\$166,774 94

$Brought\ forward\ .$	\$580,250 65	\$166,774 94
Vacations	20,018 13	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dumpe use of	3,469 90	
Vacations	500 00	
Cart repairs	1,823 40	
Cart repairs Water eart repairs Tools and repairs	130 00	
Tools and repairs	1,798 07	
Vehicle supplies	200 50	
Sweeping machine repairs .	148 08	
	2,627 74	
Snow plows, repairs	583 22	
Push brooms, teamsters brooms		
	, 1,878 50	
etc	3,535 00	
	834 44	
Sand. Water cart hose	325 37	
Flushing hose	537 80	
Refuse boxes	1,273 45	
Miscellaneous	1,793 30	
Autos, repairs and maintenance	. 52,750 52	674,933 49
		0,1,000 10
		*****
		\$841,708 43
STREET WATERING AND	OHING BRANC	יווי
STREET WATERING AND	Oiling Branc	nt.
General administration:		nt.
General administration: Salary, supervisor (in part)	. \$139 61	nt.
General administration: Salary, supervisor (in part)	\$139 61 37 19	cit.
General administration: Salary, supervisor (in part) Stationery Advertising	\$139 61 37 19 10 00	nt.
General administration: Salary, supervisor (in part) Stationery Advertising	\$139 61 37 19 10 00 105 00	2H.
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone	\$139 61 37 19 10 00 105 00 51 57	nt.
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone Miscellaneous	\$139 61 37 19 10 00 105 00 51 57 137 22	nt.
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone	\$139 61 37 19 10 00 105 00 51 57 137 22	
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part). Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81	\$1,776 40
General administration: Salary, supervisor (in part). Stationery Advertising Telephone Auto repairs and maintenance  General expenses other than general Horseshoeing Yard and stable supplies . Auto repairs and maintenance  Operating expenses: Inspectors:	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 administration: \$20 75 159 45 514 31	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 adminstration: \$20 75 159 45 514 31	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 adminstration: \$20 75 159 45 514 31	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 administration: \$20 75 159 45 514 31 \$4,477 13 5,033 13 807 94	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water Oil Sanding Vacation	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 administration: \$20 75 159 45 514 31 \$4,477 13 5,033 13 807 94 533 12	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water Oil Sanding	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 administration: \$20 75 159 45 514 31 \$4,477 13 5,033 13 807 94	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water Oil Sanding Vacation Holiday	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 adminstration: \$20 75 159 45 514 31 \$4,477 13 5,033 13 807 94 533 12 809 35	\$1,776 40
General administration: Salary, supervisor (in part) Stationery Advertising Printing Telephone Miscellaneous Auto repairs and maintenance General expenses other than general Horseshoeing Yard and stable supplies Auto repairs and maintenance Operating expenses: Inspectors: Water Oil Sanding Vacation Holiday	\$139 61 37 19 10 00 105 00 51 57 137 22 1,295 81 administration: \$20 75 159 45 514 31 \$4,477 13 5,033 13 807 94 533 12	\$1,776 40

$Brought\ forward$					\$11,660	67	\$2,470	91
Calcide					84	09	. ,	
Calcide Stable repairs					30	69		
Labor:								
Water					4,290	54		
Oil					1,385	67		
Sanding					6,889	28		
Vacation					250	50		
Holiday					848	88		
Calcide					339	00		
Building repairs					1,047	04		
Allowed time					124	51		
Showers					40	50		
Hired autos .					11,289	75		
Hired electric car	spri	nkle:	r .		4,864	00		
Tools	-				52	18		
Hose					45	00		
Hydrant repairs					112	66		
Sand					5,416	74		
					24,122	02		
Calcide					756	52		
Auto repairs and r	nair	itena	nce		3,355	75		
•							77,005	99
							\$79,476	90
Street Cleaning ex Street Watering a				ex-	\$841,708	43		
penditures .					79,476	90		
					\$921,185	33		

## DISTRIBUTION OF EXPENDITURES.

Removing snow Snow work on crossings and gutter		$$83,583 \\ 22,754$		0100 00= 00
Flushing streets				\$106,337 62 25,013 61
Street patrolling by teams . Street patrolling by push earts		\$36,119 174,829		
Collecting of refuse boxes		13,215		224,164 38
Cleaning of paved streets . Cleaning of paved streets Elgin an	d	\$235,292	57	224,104 33
Springfield sweepers		$38,560 \\ 63,669$		
Cleaning of macadam streets . Cleaning of public alleys	:	1,360		
Sanding of slippery streets .				$\begin{array}{r} 338,883 \ 17 \\ 4,584 \ 69 \end{array}$
Work done for Sanitary Service				142,724 96
Totals				\$841,708 43
Oiling public streets and ways Watering public streets and ways				$\begin{array}{c} 49,610 \   42 \\ 29,866 \   48 \end{array}$
Totals				\$921,185 33

## Summary.

Items.	Street	CLEANING BE	RANCH.	STREET '	Watering and Branch.	OILING
112.40.	1922-1923.	1923-1924.	1924-1925.	1922-1923.	1923-1924.	1924-1925.
Labor	\$614,050 S5	\$630,918 48	<b>\$</b> 685,772 62	<b>\$</b> 38,869 45	\$23,510 89	\$27,454 38
Teaming	29,355 00	29,825 00	14,246 50	16,539 23	20,270 00	16,153 75
Supplies and repairs	97,478 06	159,290 50	141,689 31	79,315 18	65,061 44	35,868 77
Totals	\$740,883 91	\$\$20,033 98	\$841,708 43	\$126,723 86	\$108,842 33	\$79,476 90

## Cost of Snow Work and Volume Removed.

Districts.	Crossings and Gutters.	Removal.	Total Cost.	Single Loads.	Cubic Yards,	Cost per Cubic Yard.
South Boston	\$3,565 56	\$2,880 66	\$6,446 22	823	2,058	\$1 39
East Boston	906 89	847 02	1,753 91	295	736	1 15
Charlestown	2,165 49	686 55	2,852 04	234	585	1 17
Dorchester	102 10		102 10			
Roxbury	444 43		444 43			
Uptown	591 87		591 87			
Downtown	3,405 15	20,434 03	23,839 18	14,919	37,297	0 547
Back Bay	431 02	3,606 27	4,037 29	1,232	3,080	1 17
North and West Ends	2,118 28	28,592 10	30,710 38	12,834	32,085	0 891
Patrol System	8,983 51	26,576 69	35,560 20	14,463	36,158	0 735
Totals	\$22,714 30	<b>\$</b> 83,623 32	\$106,337 62	44,800	111,999	0 746

## Snow Summary.

	Cost of Inspection.	Cost of	Total Cost.	Amount Remo		Cost per	Cost per Cubic
ITEMS.	Labor and Teaming.	Charges.	Total Cost.	Loads.	Cubic Yards.	Load.	Yard.
Snow removal	\$55,515 43	\$28,067 89	<b>\$83,583</b> 32	44,800	111,999	<b>\$</b> 1 S6	\$0.746
Snow crossings and gutters	14,880 21	7,874 09	22,754 30				
Totals	\$70,395 64	\$35,941 98	\$106,337 62				

#### Parts STREETS Marriage to Price PAVED STREETS MACADAM GUTTERS PAVED STREETS AND MACADAM GUTTERS PAVED STREETS AND MACADAM GUTTERS MACADAM GUTTERS Maranes Gerrens DISTRICT Cost per Cost per Inspection, Cost por Thousand

Cleaning of Paved Streets and Macadam Gutters.

PANER STREET

LOADS OF DIRT REMOVED

CUBIC YARDS OF DIRT REMOVED

	Claimed Figure	Roadway Chaned Harr	Chuned	Cleaned One	I have	To strong	Other Charges	Cost	30-ford Roadway Cleaned	Square Yards Channel	Tomang	Churges	Cref	Cleaned Once	Yards Cleaned Once	and Tousseng	Charges.	Cost	Yards Cleaned Once	Loads	Load	Loads.	Load	Loads	Load	Cubor Yards	Nquare Yards	Yard Removed	Yards	Square Yarda	Yard Removed	Cubor Yarda	Square Yards	Yard Removed	
South Fort n	13,945,925	776 64	3,915,445	571.67	16 657 360	8111077 13	\$5,000.58	\$16,656 Ke	\$21.46	\$1.219	\$5,716.5	83,299.57	\$12,056.42	821 099	\$3.994	\$19,463.68	\$9,259 40	\$25,723.05	81 721	3,054	85 457	1,690	\$7 006	4,753	\$6 043	6,108	946	\$2 728	3,316	1 128	\$3.546	9,506	569	\$3 021	
Last Boston	5 061,254	450 36	3.935.519	745.42	12 017 072	9 291 77	5105× 41	12 300 15	26 1877	1 528	10.ND 5	3,214 50	14 075 04	15 852	3 576	20,435 52	6,333 21	26,435 52	2 199	2,552	4 843	2,437	5 773	4,939	5 296	5,194	631	2 421	4,874	1 238	2 867	9,978	83	2 649	
																																		4 683	

PAYED STREETS AND MACADAM GETTERS

			l .							_				1 1												)								
South Posts n	13,040,025	776 64	3,019,445	171.67	16 657 300	\$10.077 13	\$5,999.55	\$16,656 1/4	\$21.46	81 219	\$N.716 55	83,299.57	\$12,006.4	821 059	\$3.994	\$19,463.69	\$0,250 40	\$25,723 05	81 721	3,054	85 457	1,690	\$7 096	4,753	\$6 043	6,108	940	\$2 725	3,316	1 128	\$3.548	9,506	569	\$3 021
					12 017 072																													
Christone	16.740,479	951 16	1/77 974	201.15	17 818 158	10 722 66	5,697,62	16,420.25	17 263	116	3 157 13	1.245 (6)	4,392 1	21 514	4 074	13,879 T9	6,932 65	20,812 44	1 168	1,221	13 446	362	12 133	1,583	13 147	2,442	145	6 724	724	671	6 066	3,166	183	6 573
Dorrhester	6.029743	342.53	2 037 15-	10 / 10/	NUMBER	5 185 114	41136 45	12 734 52	15.8%	2 027	7,166 01	2 963 99	10,130 0	26 255	4 972	15,354 02	7 (00) 47	22,354 52	2 771	3,307	3 696	3,125	3 238	6,435	3 47.8	6,614	1 096	1.846	6,256	3 07	1 619	12,870	1 590	1 736
hosbury	7 637 334	433.59	149.725	17 + 57	5 757 (89)	7 497 14	3 113 62	10 420 76	24 0 63	1.365	2,651.11	1 276 91	3 962 8	5 22 029	4 172	9,992 65	4,300.53	14,383 22	1 674	1,703	6 111	1,215	3 261	2.920	4 925	3.410	+16	3 055	2,430	2 558	1 631	5,640	68	2 462

South Forting	1.0905,925	776 64 3/05,445	571.67	16 657 300	\$100/07 13	\$5,969.58	\$16,656 Ke	\$21 40	81 219	\$5,765.55	83,259.57	\$12,056 42	\$21.059	\$3 994	\$19,463.68	\$9,250 40	\$25,723.05	81 721	3,054	85 457	1,690	\$7 006	4,753	\$6 043	6,108	646	\$2 725	3,316	1 128	\$3.546	9,506	569	\$3 021
East Boston	5.081,253	450 % 3,935,519	745.42	12 017 072	9.291.77	3.16% 41	12 360 15	3- 97	1 528	10.810-54	3,214 50	14 075 34	15 852	3 576	20,435 52	6,333 21	26,435 52	2 199	2,552	4 843	2,437	5 773	4,959	5 296	5,104	631	2 421	4,874	1 238	2 867	9.978	83	2 649
Charlestown	16.740,479	951 16 1/077 974	294-15	17 NIN 178	10.722.66	5,697,62	16,420.2%	17 263	116	3 157 13	1.245.04	4,392 16	23 514	4 074	13,879 TO	6,932 65	20,812 44	1 168	1,221	13 446	362	12 133	1,583	13 147	2,442	145	6 724	724	671	6 066	3,166	183	6 573
Dorrhester	6.024743	342.55 2.037.1%	19 1 92	N TRACTES	5 (85 04	4 036 45	12 /24 52	15 8%	2 1127	7,166 (1)	2 963 99	10,130.00	26 255	4 97:	15,354 05	7 (00) 47	22,354 52	2 771	3,307	3 696	3,125	3 238	6,435	3 47.4	6,614	1 096	1.846	6,256	3 07	1 619	12,870	1 595	1 736
horbury	7 607 334	43.8.59 949.725	17 + 57	5 757 (69)	7 497 14	3 113 62	10.420.76	24 0 63	1.365	2,653.33	1 276 91	3 962 16	22 029	4 172	9,902 69	4,300.53	14,383 22	1 674	1,703	6 111	1,215	3 261	2,920	4 925	3.410	+16	3 055	2,430	2 558	1 631	5,640	68	2 462
Lytonn	24 952 923	1 354 25 1 319 002	134.19	27.712.525	11490 36	3 354 35	17,004-61	11 561	5/56	6 403 71	750 37	7.154.31	11 324	2.144	19 834 00	4.334.92	24,186.92	972	2,144	7 931	829	8 666	2,973	8 136	4,288	. 176	3 966	1,658	494	4 333	5,946	214	4.068

howbury.	7 637 334	43.5	39 149.725	17 / 17	A 182 (BA)	7 497 14	3 113 62	10.420.76	24 0.63	1 365	2,653 33	1 276 91	3 962 16	22 029	4 173	9,992 69	4,300,53	14,383 22	1 674	1,703	n 111	1,215	3 261	2,920	4 923	3.410	+46	3 055	2,430	2 358	1 631	5,640	68	2 402
Lytona	24 362 92 9	1 354 3	25 1399.002	134-19	27.712.525	11491.8	3 154 31	17,004-61	11 561	1576	6 (03.71)	7 № 1 57	7.154 31	11 324	2 144	19 454 00	4.334 92	24,156 92	972	2,144	7 931	829	8 666	2,973	8 136	4,288	. 176	3 966	1,616	194	4 333	5,946	214	4 068
Elewatowa	81,547,073	4 6 54 5	14		51,047,075	primi o	1 5 6 50 67	67 741 35	14 512	526						49,000 6N	18,650 67	67,741 35	N26	6,562	10 323			6,562	10 323	13,124	16	5 161				13,124	16	5 161
Back Bay	14,596,360	525	2942000	157 0	17,529,965	11276-10	2.400.79	50/07 77	10.440	593	9,181.01	2655.18	11,569.01	21 296	4 038	15,437 99	5,0% 79	20,526.78	1.114	718	11 361	923	12 859	1,641	12.50%	1,436	098	5 681	1.846	627	6.43	3,282	197	6 254
North and West Ends	75 516,372	4317	74		75836 472	57 604 21,	16 192 20	73,796.44	17 131	973						57,694 24	16,192 20	73,796 44	973	10,712	6 989			10,712	6 887	21,424	282	3 444				21,424	282	3 444

Totale	245 849 668 14 130 18 17 111 115 1 (278 m) 200 100 983 \$172 008 90 \$02 083 67 \$235 292 57			45,170, 13	\$15,499.17	\$61,069.70		82	20 779 43	\$75,152.84	\$295,962.27		31,973		10,593		42,568	63,956	i i		21,186		85,13	6	
Average		\$16-645	\$11.045				819 425	83 677				\$1 123		\$7 358		\$6 01		\$7 023	256	\$3 679		1 283	\$3 005	319	\$3.511

Macadam Streets Oiled, -- Cost of Labor, Teaming, Oil, etc., Including Supervision.

Districts,	Oiled Once, are Yards.	alent Mile- , 30-foot daray.	DATES OF OLING	or O	LING.	Total Cost.	Cost per Square Yard Oiled	Gallons Used.	Gallons per Square Vard
	Area up2	vinpA 926 986	First.		Last.		Once.		
South Boston.	342,455	19.457	June 2	25 Ju	July 21	\$5,037 28	\$0 147	35,242	.102
East Boston	161,091	9.152	June	3 Ju	July 14	2,431 22	015	19,892	.123
	80,581	4.578	June	6 Aug.	6.	2,454 95	304	11,809	.146
	140,686	7.993	July 1	11 Aug.	g. 19	3,526 09	025	20,700	.147
	331,498	18.835	May 2	27 Aug.	9	6,100 05	184	42,187	.127
	824,717	46.858	June	-Se	Sept. 11	13,491 73	163	99,175	.13
Roxbury	565,127	32.109	June	- Sc	Sept. 5	9,043 25	910	72,504	.128
South End, Back Bay and part of Roxbury	214,614	12.193	June	- Pa	June 29	4,815 52	224	32,338	.15
	83,198	4.727	July 20	20 Aug.	g.	2,710 03	325	13,002	.156
	2,743,967	155.907				49,610 42		346,849	
Average							810		.126

## APPENDIX E.

## REPORT OF THE DIVISION ENGINEER OF THE WATER DIVISION.

Boston, February 1, 1925.

Mr. J. A. Rourke,

Commissioner of Public Works.

Dear Sir,— I respectfully submit the following report of the operations, income and expenditures of the Water

Division for the year ending January 31, 1925.

The development of unimproved property in the suburbs, especially in West Roxbury, Dorchester and Brighton, has continued without interruption throughout the entire year. The total length of 6-inch to 16-inch water pipe laid for extension was 7.3 miles, all occasioned by the construction of new buildings. Again, as in the past three years, the greatest volume of work was done in West Roxbury, and petitions for water service in this district called for the laying of 2.7 miles of pipe; in the Brighton district two miles of water pipe were laid to satisfy the demands for water.

In anticipation of the rebuilding of the Massachusetts Avenue Bridge over the New York, New Haven & Hartford Railroad, the existing 24-inch low service main carried on the bridge was relocated under the railroad tracks and, in addition, the two dead ends of the 24-inch high service main on either side of the bridge were connected by the laying of 30-inch steel pipes under the railroad tracks. The high service main serves as a cross connection between the 42-inch high service main in Huntington avenue and the 36-inch high service main in Tremont street. Both main pipes under the tracks and on either side of the bridge abutments are 30-inch steel riveted pipe, laid with cover of 7 feet below the tracks; the horizontal length of the pipes is 103 linear feet, with ninety-degree elbow pipes at either end; the vertical legs are 30-inch steel pipes terminating at the upper end of pipes, with ninety-degree

elbow pipes on which are 24-inch manholes. The upper elbows have the normal cover of 4 feet and connect to the 24-inch cast-iron pipes by reducers. The vertical legs are 20 linear feet in length. The entire length of the steel pipes is encased in a concrete monolith 18 inches thick. Each manhole has a brick chamber to provide access to the steel pipes.

A start was made during the year to improve the supply of the high service area in Brighton dependent on a 16-inch main by laying 3,000 linear feet of 24-inch pipe in Cleveland circle, Sutherland road and Commonwealth avenue, the main connecting to and supplied from the 30-inch and 35-inch high service mains of the Metropolitan Water System. This main is laid practically through the center of the high service territory and will maintain a constant pressure under heavy drafts and end the dangerous situation formerly existing as regards adequate fire protection. The construction of the West Border road in West Roxbury Parkway by the Metropolitan District Commission called for the laying of 2,050 linear feet of 16-inch main connecting to the Bellevue tank and serving as a second supply to the extra high service area in West Roxbury.

The completion of the Neponset Bridge over the Neponset river under construction for the past three years permitted the city again to supply the various islands in Boston Harbor belonging to Boston. Nine hundred fifty linear feet of 12-inch pipe were laid in the westerly sidewalk of the bridge, crossing the channel by a siphon pipe under the channel. During the construction of this bridge the islands were supplied by water obtained through the courtesy of the city of

Quincy.

For the improvement of fire protection and to furnish the quantity of water demanded by the modern fire engine, our policy of replacing lines of old and small sized pipes with larger sizes, 8-inch, 10-inch or 12-inch, has continued and during the year 2,170 linear feet of 4-inch and 6-inch pipe were relaid with 8-inch and 12inch pipe in the city proper.

Two thousand two hundred eighty-five linear feet

4-inch and 6-inch pipe were replaced by 8-inch and

12-inch pipe in Roxbury.

Three thousand seven hundred ninety linear feet 4inch and 6-inch pipe were replaced by 8-inch and 12inch pipe in Dorchester.

Nine hundred thirty linear feet 4-inch and 6-inch pipe were replaced by 8-inch and 12-inch pipe in West

Roxbury.

Three thousand three hundred fifty linear feet 4-inch and 6-inch pipe were replaced by 8-inch and 12-inch pipe in Hyde Park. The total length of pipe replaced was 2.5 miles.

Among the longer lengths replaced were:

## CITY PROPER.

Province street, from School street to Bromfield

street, 514 linear feet 6-inch by 12-inch pipe.

Leverett street, from Green street to Cotting street, 860 linear feet 12-inch by 12-inch pipe. (Original pipe laid in 1849.)

Oneida street, from Harrison avenue to Albany street,

507 linear feet 6-inch by 12-inch pipe.

## ROXBURY.

Pilgrim road, from Brookline avenue to Longwood avenue, 1,830 linear feet 6-inch by 12-inch pipe.

## South Boston.

Bowen street, from F street to Dorchester street, 450 linear feet 4-inch by 10-inch pipe.

## Dorchester.

Humphrey street, from Dudley street to Groom street, 950 linear feet 6-inch by 12-inch pipe.

Humphrey place, from Humphrey street, 355 linear

feet 4-inch by 8-inch pipe.

Blue Hill avenue, from Harvard street to Paxton

street, 900 linear feet 6-inch by 12-inch pipe.

Wildwood street, from Morton street to Paxton street, 640 linear feet 6-inch by 12-inch pipe.

## HYDE PARK.

Thatcher street, from River street to Metropolitan avenue, 760 linear feet 4-inch by 12-inch pipe.

Metropolitan avenue, from Thatcher street to Central

avenue, 1,200 linear feet 6-inch by 12-inch pipe.

Greenwood avenue, from River street to Metropolitan avenue, 940 linear feet 4-inch by 8-inch pipe.

All work in connection with the extension of and relaying of water pipes was performed under twenty-four contracts awarded at various intervals during the working season from April to November, inclusive, and every applicant for water requiring a main pipe extension was cared for without delay.

During the year service pipes to the number of 1,532 were installed, varying in size from  $\frac{5}{8}$ -inch to 12-inch, as compared with 1.382 services laid in 1923. This continued increase of service pipes is an indication of the building activities in the suburbs. One hundred ninetyeight of the total number of services installed were 4-inch pipes to furnish sprinkler protection. Cleaning of the older pipes laid previous to or in the early '70's was continued with a resultant improvement in the water system. Under a contract with the National Water Main Cleaning Company of New York, 28,900 linear feet of 6-inch, 8-inch and 12-inch pipe were cleaned in Roxbury and 36,300 linear feet of 12-inch and 16inch pipe were cleaned in Brighton. The permanent paving of the longer thoroughfares such as Shawmut avenue, Blue Hill avenue, Congress street, Pearl street, South street, Charles street, Essex street, Centre street, Roxbury, Border street, East Boston, placed a severe demand on the resources of the maintenance force. anticipation of the permanent payement, the policy has been continued of gating all post hydrants, replacing the old decaying wooden gate and hydrant boxes with either cast-iron or concrete boxes, and the regulating and setting to grade all sidewalk cocks and tubes in order that every service may be controlled at the sidewalk and excavation in the roadway eliminated.

The regular work of the Distribution Branch repairing leaks, establishing fire and service pipes, freeing stoppages, shutting off and letting on water, etc., was handled to cause a minimum of delay or discomfort to applicants for water, to water takers and to the traveling public.

In compliance with the Acts of 1907, relative to metering water services, 3,814 meters were set on old services in existence prior to 1907 and 1,258 meters were set on new service pipes, a total setting of 5,072 meters. On January 31, 1925, the total number of meters in service was 85,636 and there remain to meter only Wards 25 and 26 of Brighton, having about 5,000 services unmetered. At the present rate of installa-

tion, the entire city will be on metered service by January 1, 1926. With 94 per cent of Boston metered, the work of the meter branch is increasing correspondingly and in addition to the meters installed as above, 7.485 meters have been changed and reset and 6.287

meters have been repaired during the year.

A new record has been made in the Income Branch by the collecting of \$3,930,893 for the year — exceeding the revenue for 1923–24 by \$20,000. Practically all money collectible for unpaid water bills of previous years has been collected and from now on the receipts will be only for the bills rendered each year. The statute making water bills a lien on real estate still continues to work to the benefit of the Water Division in prompt payments and prevents loss to the city when property changes owners.

The policy of advertising the main pipe and special castings contracts in the last months of the year for the next season's work has been followed and works to the utmost satisfaction. Without exception, all deliveries for the year 1924 were as specified in every contract awarded and at the beginning of the working season a sufficient quantity of every variety of stock was on hand and both pipe laying contracts and work by the Water Division employees were performed without any delay.

Under a contract awarded in April 8,000 linear feet of 12-inch high pressure fire pipe and 4,000 linear feet of 16-inch high pressure fire pipe were laid in various streets in the business district, supplying sixty hydrants. There are now 15.8 miles of pipe with 430 hydrants in the

High Pressure Fire System.

Further detailed information regarding operations of the various branches of this division will be found in the tables published herewith.

Very respectfully,

C. J. Carven, Division Engineer.

### Receipts and Expenditures, 1915-25. Receipts.

	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
Sales of water	\$2,859,707 92	\$3,037,974 66	\$2,872,867 89	82,995,922 73	\$3,244,542 57	\$3,364,937 04	\$3,407,579 24	\$3,694,448 30	\$3,813,571 42	\$3,748,575 28
Other receipts	84,977 77	71,374 55	79,223 75	50,529 81	54,111 33	64,598 71	65,479 69	97,499 70	97,164 30	182,317 83
	\$2,944,685-69	83,100,349 21	2,952,091 64	\$3,049,452 54	\$3,298,653 90	\$3,429,535 75	\$3,473,058 93	\$3,791,948 00	\$3,910,735 72	\$3,930,893 11
Transfer by City Auditor			* 4,826 39							
	\$2,944,685 69	\$3,100,349 21	\$2,956,918 03	83,049,452 54	\$3,298,653 90	\$3,429,535 75	\$3,473,058 93	\$3,791,948 00	\$3,910,735 72	\$3,930,893 11
Balance, beginning of year	\$154,470 21	\$135,014 40	887,146 19	825,087-31	† 83,487 83			† \$43,733 95	†\$200,000 00	\$24,141 18
Balance, end of year	† 135,014 40	† 87,146-19	† 25,087 31	† 3,487 83			\$43,733 95		24,141 18	26,737 3
Transferred to Collecting Department	24,500.06	25,774 (9)	27,264 14	26,165-88	30,317 74	\$33,570 54	34,596 76	46,425 42	50,522 49	58,653 Se
Transferred to city loan account	259,046.70	407,823 86	16,000.00	124,263 90	390,095 22	209,958 26	161,000 00	250,233 01	113,570 40	16,000 00
Transferred to appropriation for service mains and relaying mains			35,000 00	30,000 00		.00		200,000 00	208,180 00	217,635 84
Transferred to appropriation for High Pressure Fire Service	x x						00	23,000 00		
Transferred to appropriation for High Pressure Fire system extension		*	8			-x		100,000 00	410,000 00	175,000 0

### Expenditures.

	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.	1922-23.	1923=24.	1924-25.
Current expenses	\$904,135-19	8917,523 64	\$1,045,543-65	81,055,842 87	\$1,010,634-32	‡\$1,253,166 33	‡\$1,232,418 76	‡\$1,396,212 50	\$1,229,573 73	\$1,608,320 10
Service and relaying mains	49,455 84	47,868 21	97,058 88	51,599 48	3,487 83				384,038 82	215,042 67
Metropolitan water assessment	1,665,006 20	1,669,132 79	1,752,004-76	1,741,608 84	1,505,104 07	1,885,924 91	1,958,528 33	1,784,257 21	1,872,413 17	1,829,973 63
Interest	91,259 22	\$7,866 59	80,494 28	71,268 00	61,162 73	45,874 33	41,852 66	34,449 49	25,534 00	24,680 00
Refunded water rates	738 35	628 33	611-20	962 99	1,339 82	1,041 38	928 47	1,104 32	941 93	626 68
	\$2,710,594 83	\$2,723,619 56	\$2,975,712 77	82,929,682 18	\$2,881,728 77	\$3,186,006 95	\$3,233,728 22	83,216,023 52	\$3,512,501 65	\$3,678,643 08

<sup>\*</sup> Transfer from Reserve Fund, † Balance of appropriation for service mains and relaying mains, ‡ Amount expended for current expenses and extensions, there being one appropriation only.



### FINANCIAL STATEMENT.

### RECEIPTS.

Sales of water Service pipes and re Fire, motor and elev	pairs rator pi	es, r	new a	nd re	epair:	s .			\$3,748,575 97,380 60,105 8,021	$\frac{71}{2^2}$
Fees for Summonses	ior mi	всена:	neous	. WOI	к.				6,021 6,087 5, 436	18
Sales of merchandise	.s . 								1 701	91
Fire, motor and elev Labor and materials Fees for Summonses Sales of old material Sales of merchandisc Interest on bank dep Damages to hydrant Shutting off and lett Board of horses	ts .	veto	for			ont			639	93
Board of horses Testing meters Sales of gasolene Drill returned Workmen's Compen Sales of automobile: Damage claim	ing on	water	. 101 1		<i>.</i>	· ·			367	50
Testing meters .									$\frac{225}{193}$	
Drill returned .									83	
Workmen's Compen	sation								69	
Sales of automobile :	accessor	ies							52 25	72
Damage claim .						•			20 8	
Delivering water									5	
Damage claim Rebate on gasolene Delivering water Sale of lampwicks										80
Total income									\$3,930,893	11
Transferred to City Hyde Park Water	y Loan Dobt	acco	ount	to I	oay	\$16	,000	വ		
Transferred to cred	it of C	ollec	ting	Depa	rt-		,653			
Transferred to ap Mains and Re-lay	ing Mai	ns .				217	,638	84		
Transferred to ap Mains and Re-lay Transferred to appr sure Fire System 1	ing Mai opriatio	ns . n for	r Hig	h Pı	es-		,638 ,000		467 909	70
Mains and Re-lay	ing Mai opriatio	ns . n for	r Hig	h Pı	es-				467,292	
Mains and Re-lay	ing Mai opriatio	ns . on for on .	r Hig	h Pı	es-				467,292 \$3,463,600	
Mains and Re-lay Transferred to appr sure Fire System 1	ing Mai opriatio Extensio	ns . on for on .	r Hig	h Pi	es-	175	,000	00	\$3,463,600	41
Mains and Re-lay Transferred to appr sure Fire System I	ing Mai opriatio Extensio	ns . on for on . Ex	r Hig	h Pi	es-	175	,000	00	\$3,463,600 \$1,608,320	41 10
Mains and Re-lay Transferred to appr sure Fire System I	ing Mai opriatio Extensio	ns . on for on . Ex	r Hig	h Pi	es-	175	,000	00	\$3,463,600 \$1,608,320	41 10
Mains and Re-lay Transferred to appr sure Fire System I	ing Mai opriatio Extensio	ns . on for on . Ex	r Hig	h Pi	es-	175	,000	00	\$3,463,600	41 10
Mains and Re-lay Transferred to appr sure Fire System 1	ing Mai opriatio Extensio	ns . on for on . Ex	r Hig	h Pi	es-	175	,000	00	\$3,463,600 \$1,608,320	10 00 68 63
Mains and Re-lay Transferred to appr sure Fire System I Current expenses an Interest on water los Refunded water rate Metropolitan water s	ing Mai opriatio Extensio	ent	r Hig	h Pr	es-	175	,000		\$3,463,600 \$1,608,320 24,680 626 1,829,973	10 00 68 63
Mains and Re-lay Transferred to appr sure Fire System I Current expenses and Interest on water lox Refunded water rate Metropolitan water :	ing Mai opriatic Extension d extens uns s s sassessm uce M Februa	Exsions  ent	PENI AND 1924	h Pi	res.	175	,000	00 	\$3,463,600 \$1,608,320 24,680 626 1,829,973	10 00 68 63
Mains and Re-lay Transferred to appr sure Fire System I Current expenses and Interest on water los Refunded water rate Metropolitan water a Serv Balance unexpended Appropriation from 1921	ing Mai opriatic Extension d extens us	Exions  ent  AINS ry 1, incom	AND 1924 ne M	h Pi DITUE REI	res-	175 324, \$24,		00 	\$3,463,600 \$1,608,320 24,680 626 1,829,973	10 00 68 63
Mains and Re-lay. Transferred to approve Fire System I  Current expenses an Interest on water los Refunded water rate Metropolitan water state Metropolitan water state Metropolitan from 1924 Appropriation from 1925	ing Maiopriatic Extension d extension s s s s s s s s sessessm vice M Februa water water water	Exions  Entire Exication Alives  Exact Alive	AND 1924 ne A	REI	RES.	175 324, \$24,		00 	\$3,463,600 \$1,608,320 24,680 626 1,829,973	10 00 68 63
Mains and Re-lay Transferred to appr sure Fire System I Current expenses an Interest on water los Refunded water rate Metropolitan water a Serv Balance unexpended Appropriation from	ing Maiopriatic Extension d extension s s s s s s s s sessessm vice M Februa water water water	Exions  Entire Exication Alives  Exact Alive	AND 1924 ne A	REI	RES.	175 324, \$24,		00 	\$3,463,600 \$1,608,320 24,680 626 1,829,973	41 10 00 68 63 41

Details of expenditures under appropriation for current expenses and extensions for the fiscal year ending January 31, 1925. (From revenue.)

	$\mathbf{E}$	XTENSION					
Construction of new mains Replacement of old mains New hydrants				\$130.563	78		
Replacement of old mains	•		•	49 989	76		
New hydrants			٠	9.756	30		
	•			0,100			
Total extensions .						\$190,309	84
				•		,	
I	MA	INTENANO	E.				
Office and Engineering Branch							
Salaries and wages Traveling expenses Printing, stationery and pos	••	\$47.756	52				
Traveling expenses		1.505	35				
Printing expenses	. +	1,505	55				
are seattlenery and pos	, t =	2.706	70				
Missellaneous	•	1,140	40				
age		1,149	49	259 110	o.e		
Income Branch:				\$53,118	00		
Palasian and annual		0151 590	770				
Talailes and wages		9191,799	12				
1 ravenng expenses		2,321	45				
Printing, stationery and por	τ-	- 004	0.0				
age		5,964	06				
Income Branch: Salaries and wages Traveling expenses Printing, stationery and por age Miscellaneous		4,245	59	4040=0			
District the December				164,270	82		
Distribution Branch:		00 F 400	0.0				
Salaries and wages Traveling expenses		\$35,486	02				
Traveling expenses		965	48				
Printing, stationery and pos	t-						
age		876	35				
Miscellaneous		1,990	92				
Traveling expenses Printing, stationery and pos age Miscellaneous			_	39,318	77		
Salaries and wages		\$16,377	53				
Traveling expenses		26	30				
Salaries and wages . Traveling expenses . New meters and setting		74,366	02				
testing, etc		36,643	61				
Printing, stationery and pos	t-						
age		623	33				
Shops		17,382	99				
Laborers' vacations .		1,313	15				
Holiday		5,189	30				
testing, etc. Printing, stationery and pos age Shops Laborers' vacations Holiday Miscellaneous		1,439	27				
				153,361	50		
Inspection of castings .				7,335	40		
Damages				35,3 <b>9</b> 9	52		
Yards				69,239	33		
Shops				39,727 11,353	41		
Stables				11,353	08		
Tools and repairs				28,965			
Main pipe relocation				15,403	75		
Main pipe repairs				93,309 106,273	69		
Service pipes, new				106,273	26		
Service pipes, changes .				12,324	17		
Service pipes, repairs				114,781	56		
Hydrant, changes				34,456			
Inspection of castings Damages Yards Shops Stables Tools and repairs Main pipe relocation Main pipe repairs Service pipes, new Service pipes, changes Service pipes, repairs Hydrant, changes Hydrant, repairs				64,560	63		
						****	
Carried forward				\$786,491	85	<b>\$19</b> 0,309	84

Brought forward						· .	\$786.4	91	85	\$190,309	84
Water post, changes									17	,	
Water post, repairs							7	67	13		
Fountain, changes Fountain, repairs. Fountain, on account							2	14	91		
Fountain, repairs.							4.4	69	07		
Fountain, on account	of i	ce					1,2				
Holiday							49,0				
Holiday Investigations									89		
Off and on water							22,1				
Off and on water Accommodation work									32		
Work on account of	Offi	ce a	nd I	ingi	neer	ing	-,-				
Branch								66	97		
Work on account of	Inco	me l	Branc	·h					13		
Work on account of l									15		
Work on account of v								10			
Work on account of r							8,5				
Work on account of r							9.5				
Launch, repairs and s									13		
Veterans' pensions	,,,,,	11(11							58		
Veterans' pensions Laborers' pensions							11,6				
Laborers' vacations	•	•					14,5				
Workmen's compensa	tion						$^{14,0}_{3,2}$				
Emorgonay Sarvice							55,3				
Emergency Service							1,5				
Garage . Medical inspector Taxes							5				
Toyog									00		
High Programs Fire S	rator										
Horbor corried	ster	11	•								
Harbor service . Automobiles .							$\frac{1}{40.7}$	20	01		
Automobiles .		•					40.7	Jy	00		
Total maintenan										1 904 006	69
Merchandise sold and	re Lato	air ac	·	nod	+					1,284,986 $3,989$	
C4 al and se sold and	1 5(0)	CK CC	msig	aea	to it	шк					
Stock purchased										487,597	69
										21 000 001	oe.
T 4 1 1 1	1:	1								\$1,966,884	20
Less stock used and d	uspo	sea	OI							358,564	10
Total owner 141	M C	c				:	c				
Total expendtiu	res	iron	ı ap	pro	priat	ion	tor ct	ırre	nt	01 000 000	10
expenses .										\$1,608,320	10

# Details of expenditures under appropriation for "Service Mains and Relaying Mains." (From revenue.)

Construction of new i	nair	ıs								\$138,889 14
Replacement of old m	ain	3								26,236 61
New hydrants .										4,738 80
Main pipe, relocation										17,879 41
Main pipe, repairs										2,716 85
Service pipes, new										16,909 38
Service pipes, change	S									10 80
Service pipes, repairs										300 03
Hydrant, changes										5.169-54
Hydrant, repairs										73 04
rountain repairs										10 80
New meters .										2.092 - 07
Yards										16 20
Total expenditu Mains " 1924-	res	"So	ervice	N	<b>I</b> ains	and	R	elayi	ng	\$215.042.67

# COST OF CONSTRUCTION AND CONDITION OF WATER DEBT.

Cost of construction to February Cost of construction to February							\$19,546,435 19,186,260	
Increase during the year $\cdot$	,						\$360,174	39
Outstanding loans February 1, 192 Outstanding loans February 1, 192							\$625,000 250,000	
Decrease during the year							\$375,000	00
Water Sinking Fund February 1, Water Sinking Fund February 1,							\$359,000 000,000	
Decrease during the year							\$359,000	00
Gross Water Debt February 1, 19: Gross Water Debt February 1, 19:	24 25						\$625,000 250,000	
Decrease during the year							\$375,000	00
Cochituate Water Sinking Fund re Interest on investments Interest in bank deposits	eccip ·	ts 19	)24- ·	25: :			\$9,925 1,491 \$11,416	14
Cost of existing works January 31, Pipe yards and buildings Engineering expenses							\$94,832 57,873	
Distribution system (addition d 174.39)	urmş	g th	.e y	ear,	\$360	, <b>-</b>	18,925,729 468,000	
							\$19,546,435	08
High Pressure Fire System addi (\$325,803.11)	tions	. du	rin;		yea	r	\$2,026,623 S	84

# INCOME BRANCH.

Table No. 1.— Statement of Each Year's Water Rates, 1906 to 1925, as of January 31, 1925.

Account of Year.	Amount Assessed.	Amount Abated.	Amount Collected.	Outstanding.
1906	\$2,524,205 25	\$37,599 28	\$2,486,605 97	
1907	2,619,031 00	34,959 33	2,584,071 67	
1908	2,645,962 55	36,939 32	2,609,023 23	
1909	2,694.408 57	49,407 44	2,645,001 13	
1910	2,845,900-66	117,818 49	2,728,182 17	
1911	2,863,501 75	65,439 47	2,798,062 28	
1912	3,001,771 87	49,937 87	2,943,402 48	\$8,431 52
1913	3,004,331 52	42,088 77	2,954,183 62	8,059 13
1914	3,034,885 83	41,544 93	2,970,232 82	23,108 08
1915	2,960,797 45	15,084 24	2,903,015-36	42,697 85
1916	3,130,590 53	16,390 64	3,062,749 14	51,450 75
1917	3,120,878-86	19,287 29	3,043,454 21	58,137 36
1918	3,359,691 95	98,624 99	3,197,142 01	63,924 95
1919	3,210,116 91	27,111 37	3,114,260 45	68,745 09
1920	3,503,644 58	61,968 25	3,379,770 19	61,906 14
1921	3,615,629 41	34,098 26	3,523,553 38	57,977 77
1922	3,612,681 41	31,357 21	3,520,318 43	61,005 77
1923	3,816,896 92	32,810 87	3,722.286 43	61,799 62
1924	3,831.504 44	25,834 56	3,485,828 89	319,840 99
1925	115,351 49	176 20	38,385 72	76,789 57
Total outstanding,				\$963,874 59

Note: Amount outstanding same date in 1924, \$981,950.44.

Table No. II.- Elevator, Motor and Fire Services.

Elevator services installed	
Elevator services abandoned.	2
Total number of elevator services in use January 31, 1925	508
Fire services installed	203
Fire services abandoned	2
Total number of fire services in use January 31, 1925	2,508
Total number of motor services in use January 31, 1925	96
Number of motor services metered	20

METER BRANCH. Table No. 1.— Statement of Work During Fiscal Year 1924-25.

			Сна	NGED.		1		
Маке.	New Sets.	Discontinued.	Out.	In.	Tested.	Repaired in Shop.	Resets.	Repaired in Service.
Hersey disc	247	389	3,213	2,845	3,687	2,559	138	512
Worthington disc	190	104	1,480	1,042	2,169	1,282	53	399
Crown	16	27	209	52	303	73	2	13
American		11	117	90	171	123	8	130
Hersey rotary	10	12	133	58	195	55	1	110
Nash	7	12	126	58	183	57		12
Lambert	5	4	44	17	66	44		5
Trident	1	4	24	15	33	18		5
Keystone	1	6	13	12	19	12	3	
${\bf Empire}$		1	11	5	15	16		
Hersey detector	7	1			7			32
King	841	111.	1,444	698	2,121	1,277	117	159
Hersey compound					<b></b> .			16
Watch dog	3,566	52	667	2,569	8,045	770	143	191
Federal	176		3	24	245		1	38
Protectus	5							1
$Gem\dots\dots\dots\dots$		1			1	1		
Standard			1		1			
Totals	5,072	735	7,485	7,485	17,261	6,287	469	1,623

Table No. 11.

Meters in Service, January 31, 1925.

			D	)IAMETE	R IN	Inch	ES.				
Make.	1	ì	1	1 }	2	3	4	6	8	10	Totals.
Hersey disc	42,922	3,182	1,415	717	255	103	50	4		Ī.,	48,648
Hersey rotary	363	346	223	174	178	61	24	14			1,383
Crown	471	490	304	186	164	64	50	10		ļ.,	1,739
Nash	434	182	120	31	36	3					806
Lambert	312	104	72	18	17		3				526
Trident	202	5	3	4	5	16	9	3			247
Detector						4	15	26	13	6	61
Worthington		8	26	1	8	11	1				55
Worthington disc	10,003	28	8	16	57	51	15				10,178
Keystone	193	171	23	2	2	10		2			403
Metropolitan		12	1								13
American	227	447									674
Worthington turbine							1			١	1
Empire	137	3	3	4							147
Protectus							1	2	2	2	7
Gem					1			2			3
Standard	5										5
Watch Dog	7,155	353	186	106	81	28					7,909
Thomson	6	2			'						s
Union	2	1									3
King	11,909	321	222	76	65						12,593
Hersey compound							1	s			9
B. W. W		1									1
Gamon	1										1
Federal	213										213
Totals	74,555	5,656	2,606	1,335	869	351	170	71	15	8	85,636

Table No. I.

Lingth of Water Pipes and Connections Ownel and Operated by the Public Works Department, Water Division (Water Service) and Number of Valves in Same, January 31, 1925.

	Totals.	4,720,737 13,493 391 682	55,861 215 18 28	19,242 52 4 15	136.696 *4,757,356 3.630 571 15 16 136.696 122 7 1 66.696 64,757,356 122 695 7 1 66.696 64,757,356
	~	6,591	175	9	6,696 16 1
	۳	9,738 15		296	9,442 15 1
	4	92.244 576		4,539	87,705 571
	9	1.147,609 92,244 9,738 6,591 16 3,49	953	9,069	
	œ	872,495 2,974 3 119	19,397	747	891,145 3,030 3118
	10	436,437 1,451 1	4,833 17	223	1,468 1,468 1,468 45
CHES.	13	1,528,212 436,437 872,495 3,920 1,451 2,974 1,451 119	23,417 114 3	3,599 10 2 3	1,548,030 441,047 4,024 1,468 42 124 154 45
E IN IN	4	110,6			5,041
DIAMETER OF PIPE IN INCHES.	91	S6,520 279,858 7 43 43 71 71 71 71 71 71 71 71 71 71 71 71 71	8,61 61 61 61 61 61 61	303	86,520 282,834 5,041 1 72 638 19 43 74
MAMETER	50	86,520 72 44			86,520 72 43 46
1	24	76,532 68 64 23	3,431	396	79,567 72 70 26
	30	93,331 59 106 34	376		93,707 59 109 34
	36	43,535 20 34 11			43,535 20 34 11
	94	16,081 8 8 8			16,081 9 9
	42	15,980 4 5	-	1	15,980
	84	10,533 13 13			10,533 9 13 1
		Length owned and operated January 31, 1924 (feet) Gate valves in same. An valves in same. Blow-offs in same.	Length laid and relaid during year 1924-25. Gate valves in same Air valves in same Blow-offs in same.	Length abandoned during year 1924-25. Gate valves in same. Air valves in same. Blow-offs in same.	Length owned and operated January 31, 1925 (feet) Gate valves in same Air valves in same. Blow-offs in same.

\* 901.01 miles.

Table No. II.

Total Number of Hydrants in System January 31, 1825.

	Lowry.	Boston Lowry.	Boston Post.	Ordinary Post.	Bachelder and Finneran Post.	Ludlow Post.	Chapman Post.	Coffin Post.	Matthews Post.	Boston.	Totals.
City proper (public)	482	40	523	291	125					58	1,519
" (private)	4		9	6						39	58
Roxbury (public)	335	57	463	448	186					15	1,504
" (private)	2	1	3	-1					,	10	20
West Roxbury (public)	33	163	495	894	185					13	1,783
" (private)				15	1					1	17
Brighton (public)	21	50	282	501	80					13	947
" (private)				8						2	10
Dorchester (public)	215	147	700	1,163	124					21	2,370
" (private)		1	s		2					4	15
South Boston (public)	111	22	260	221	29					16	659
" (private)	3			15						27	45
East Boston (public)	32	15	217	215	36					6	521
" (private)	8	1		9						25	43
Charlestown (public)	86	38	145	62	15				:	2	348
" (private)	13	1		37						5	56
Hyde Park (public)			26	290	42	7	127	1			493
" (private)						13	55		4		72
Deer Island (private)			1	19							20
Long Island (private)				- 6							6
Thompson's Island (private)				2							2
Gallop's Island (private)				3						1	4
Rainsford Island (private)				3							3
Quincy				9							9
Total number (public)	[1,315	532	3,111	4,085	822	7	127	I		144	10,144
Total number (private and suburban)	30	-4	21	136	3	13	55		4	114	380

Table No. III.

Service Pipes of Various Sizes Connected With the System, January 31, 1925.

Size.	Total Number.	Aggregate Length in Linear Feet.
½-inch	6,914	158,287
§-inch	87,103	2,420,216
}-inch	3,673	124,792
1-inch	5,622	200,813
1 ½-inch	589	17,434
1 ½-ineh	1,695	51,170
2-inch	2,302	70,243
2}-inch	12	267
3-inch	996	28,307
4-inch.	2,972	81,866
6-inch	204	23,900
8-inch	62	4,380
10-inch	15	1,771
12-inch	18	3,896
16-inch	5	448
Totals	* 112,182	3,187,790

<sup>\*</sup> The completion of the metering of all services to within 5 per cent of the total number of live service pipes discloses the fact that the total number of service pipes will not exceed 90,000. The large discrepancy is found to be due to the fact that previous to 1880 no deductions were made for pipes abandoned, etc.

Table No. IV.

Hydrant Repairs.

CAUSE OF REPAIRS.	Number of Jobs.	Cost.
Boxes raised, lowered, reset, repaired and renewed	421	\$6,935 33
Barrels changed, relocated, reset and repaired	715	5,627 99
Frost	50	475 36
Paint worn off	9,655	3,490 45
Contractors, corporations, other departments and divisions	16	490 98
Street construction and repairs	38	1,316 20
Repaving on account of repairs	145	2,076 89
Traffie	138	2,160 36
Hydrants inspected, oiled, cleaned, pumped, wasted and cleared of snow.	91,392	22,647 93
Salt delivered to Fire Department, bags — 3,243		3,710 75
Changing threads on nozzles	42 2	355 87
Totals	102,992	\$49,298 11

Table No. V.

Maintenance of Main Pipe for Fiscal Year.—Ending January 31, 1925.

NATURE OF WORK.	Number of Jobs.	Total Cost.
Box tops renewed	40	\$476 S6
Cleaning main pipes (by contractors)	33	21,849 20
Dead ends blown off	44	147 41
Gates leaking at packing	92	1,039 52
Gates examined, salted, inspected, etc	5,996	3,476 47
Gate locations marked	7,892	2,488 96
Gates repaired	91	2,432 85
Gate boxes cleaned out	57	1,033 97
Gate box covers and frames repaired	106	1,436 09
Gate boxes renewed	333	14,480 10
Gate boxes raised and lowered	219	5,038 83
Leaking joints repaired	123	3,564 93
Leaks due to settlement and other causes	40	4,266 72
Repairs on bridges (on pipes, boxes, etc)	41	3,419 81
Repaying (including contractor's miseellaneous jobs)	246	7,656 60
Miscellaneous jobs	38	2,264 67
Totals	15,391	875,072 99

# Cost of Extension of Main Pipe.

Total Remarks.	s745 55 Public, rock, clay.	50 369 78 Private, clay.	1 \$1,115 33	2 \$1,631 73 Private, gravel, rock.	8. 865 51 Private, clay.	1,307 62 Private, hard clay.	652 01 Private, gravel and clay.		3,742 51 Private, sand and rock.	3 412 80 Public, tar and macadam.	1,053 20 Private, sand and gravel.	1,749 70 Private, clay and rock.	1 913 45 Public granite block and consesse		1 \$12,658 53
Cost of Inspec-	59 \$52 94	11	59 864 44	85 876 02	32 58	33 43 13	00 8 63		96 96	24 20 13	94 9 50	51 30	100		14 \$359 84
Cost of Labor.	2 \$426 59	s 113 00	\$539	\$515	3 330 00	488	38 206 00		71 020,1	293	3+4	732 61	248 67		5 \$5,383 14
Cost of Depart- ment Materials, etc.	\$266 02	245 28	\$511.30	\$1,039 86	502 93	776 16	437		1,729 04	86 43	92 869	962 76	2000		\$6,915.55
Feet.	. 113	110	133	001	261	411	182	784	10	9	250	359	173	95	2,985
Size (Inch).	9	9	9	œ	œ	00	œ		- x	×.	20	×	S	×	· ·
District.	Brighton.	Brighton.		Brighton.	Brighton.	Brighton.	Brighton.	Brighton.	Brighton.	Brighton.	Brighton.	Brighton.	City Proper.	City Proper.	
Location.	From Corey road	From Brainerd road	Totals	Between Allston street and Common- wealth avenue.	From Foster street	From Dunboy street	From Washington street	Between Commonwealth avenue and Monastery road.	Ransom road From Claymoss road	From Perthshire road	From Funcuil street	Between Allston street and Commonwealth avenue.	Between Beach and Tufts streets	From Kuecland street	('urried forward
Spurkt.	Orehard road	Walbridge street		Florence avenue	Lane park	E Perthshire road	Perle street	Claymoss road	Ranson road	Matchett street	Goodenough street	Elizabeth avenue	South street	South street	

Cost of Extension of Main Pipe. — Continued.

Remarks.		616 04 Publie, concrete.	141 47 Private, clay.	9 305 72 Private gravel.		2,844 18 Private, gravel.	Public, clay.	481 33 Private, gravel.	323 68 Private, gravel.	I,042 93 Private, gravel.	1,376 53 Private, elay.	Private, gravel.	271 79 Private, rock.	563 32 Private, elay and rock.	Private, loaniy elay.	2,668 50 Private, rock.	272 74 Private, rock, hardpan.
Total Cost.	\$359 84 \$12,658 53	616 04		2 305 72			586 50	481 33	323 68		1,376 53	559 32	271 79		322 57		
Cost of Inspec- tion.	\$359.84	25 00	5 75	16.39		43 44	5 75	5 39	5 39	21 72	67 50	11 50	18 00	13 50	28 74	117 36	17 25
Cost of Labor.	\$5,383 14	325 32	17 00	1 038 65	0001	1,140 47	199 25	162 88	118 37	399 67	537 54	162 45	195 85	291 89	133 63	1,495 15	110 02
Cost of Depart- ment Materials, etc.	\$6,915 55	265 72	118 72	1 950 68	000	1,660 27	381 50	313 06	199 92	621 54	771 49	385 37	57 94	257 93	160 20	1,055 99	145 47
Feet.	2,985	26	15	200	7.4	676	189	131	- 76	208	. 366	171	32	152	71	421	84
Size. (Inch)	30	×	œ	œ	o	œ	œ	s	œ	o	×	S	œ	∞	œ	œ	-∞
District.		Dorehester.	Dorchester.	Dorchester.	Dorchester.	Dorchester.	Dorehester.	Dorchester.	Dorchester.	Dorchester.	Dorchester.	Dorchester.	Dorchester.	Dorehester.	Dorehester.	Dorchester.	Hyde Park.
Location.	Brought forward	From Howard avenue	From Blue Hill avenue	From Beaumont street	From Burgoyne street	Between Van Winkle and Codman streets.	Between Morton and Middleton streets.	At Old Colony Parkway	From Old Colony Parkway	Between Adams and Gustine streets,	Between Butler and Medway streets,	From Milton street	From Norfolk street	From Norfolk street	From Oakland street	From Quincy street	From Randolph road
STREET.		Dalkeith street	Donald road	Burgoyne street	Helena road	Becket street	Wildwood street	Bertram street	Howe street	Fairview street	Branch street	Myrtlebank avenue	Fessenden street	Mildred avenue	Hallowell street	Fernald terrace	Rockdale street

Hollingsworth street Ruskin road Friendship road Burnham street Cunningham street Reed street Harold street	Hollingsworth street Between Oakland street and Randolph Hyde Park Ruskin road From River street Hyde Park Friendship road Between Oscoola street and Belnel Hyde Park Darnham street Between Howard avenue and Hart- Road Roxbury. Reed street Between Hunneman and Thorndike Roxbury. Street Between Carwford and Howland Roxbury. Street Between Carwford and Howland Roxbury. Street Between Crawford and Howland Roxbury. Street Between Crawford and Howland Roxbury. Street Between Crawford and Howland Roxbury.	Hyde Park. Hyde Park. Hyde Park. Hyde Park. Roxbury. Roxbury. Roxbury. Roxbury.	x x x x x x x x x	549 138 72 438 57 57 191 176 124	25. 525. 1 1,120 28 337 78 121 87 970 52 77 502 77 503 830 83 830 83 818 01 829 83	745 336 657 36 657 36 657 36 657 36 657 36 657 36 657 36 657 657 657 657 657 657 657 657 657 65	25. 24. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	2,021 1,850 1,560 1,225 822 822 822 598 598	2.021 79 Private, clay. 1.850 95 Private, clay and rock. 5.56 63 Private, clay and rock. 1.560 29 Private, gavel and rock. 1.505 29 Public, gravel. 1.225 23 Public, gravel. 8.22 26 Public, marculant. 598 08 Public, sand and gravel.
vauon 1 oau. Pond View avenue Roslindae avenue. Winton street. Granfield avenue. Granfield avenue. Alliambra road. Marion street.	OW STreets.	west Roxbury.	x x x x x x x x x x x x x x x x x x x	133 133 133 133 133 133 133 133 133 133	7         4.2         1,025 95         4.85 31         2.0           8         4.2         1,025 95         4.85 31         2.0           8         2.0         6.38 02         2.75 41         29 87           8         2.0         6.38 02         2.75 41         29 87           8         2.0         7.50 36         8.0         9.0         3.6           8         2.0         1,031 97         9.0         3.6         9.0         3.6           8         2.2         6.30 03         3.78 49         3.1 50         9.1         5.0           8         2.3         6.50 03         3.08 30         19 91         9.0           8         3.3         1,274 14         5.31 30         14 26         9.0           8         1,274 14         5.31 30         14 26         9.0         <	388 33 165 00 165 00 609 32 378 49 554 00 531 30 531 30	25 S S S S S S S S S S S S S S S S S S S	55	1.202 20 Private ash filled.  7.234 14 Public, under construction  7.234 14 Public, under construction  7.24 42 Private, sandy clay.  7.508 16 Public, clay and rock.  7.715 26 Private, clay.  7.604 27 Private, ash filled.  7.604 27 Private, loan and clay.  7.745 Private, loan and clay.  7.819 70 Private, gravel, clay.

Cost of Extension of Main Pipe. — Continued.

STREET.	Location.	District.	e nch).	Feet.	Cost of Depart- ment Materials.	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	Remarks.
			ziS I)		ete.				
	Brought forward		20	11,862	\$28,078-85	8 11,862 \$28,078 85 \$20,092 01 \$1,368 66 \$49,539	\$1,368 66	\$49,539 52	
Goodway road	Between Bourne and Florence strects,	West Roxbury.	œ	641	1,355 01	695 34	25 88	2,076 23	Private, gravel, clay and ash.
Hillside avenue	From Crandell street	West Roxbury.	œ	224	524 96	327 58	16 29	868 83	Private, clay.
Hawthorne street	From Florence street	West Roxbury.	×	55	119 36	118 64	8 63	246 63	Private, loamy elay.
Grover street	From Neponset avenue	West Roxbury.	œ	9	240 07	233 00	11 50	484 57	Private, sand.
61 Parkton road	Between Bonad and Russett roads	West Roxbury.	œ	464	1,087 53	475 32	21 72	1,584 57	Private, rock and clay.
Bonad road	Between Weld street and Parkton	West Roxbury.	00	267	552 95	248 50	21 72	823 17	Private, clay.
Glenside avenue	From Glen road	West Roxbury.	00	121	205 78	443 00	29 49	678 27	Private, clay and gravel.
Metropolitan avenue	West of Washington street	West Roxbury.	-00	-09	146 38	60 30	5 43		212 11 Public, under construction.
Maynard street	opolitan avenue and	West Roxbury.	00	513	1,444 93	947 12	45 00	2,437 05	2,437 05 Private, rock and elay.
Burley street	Between Betropolitan avenue and	West Roxbury.	00	166	354 42	211 25	27 50		593 17 Private, gravel.
Littledale street	From Dale street.	West Roxbury.	- 00	12	51 55	16 25	2 75		70 55 Private, gravel.
Billings lane	From Pond street	West Roxbury.	00	639	1,582 06	997 51	16 69	2,649 48	2,649 48 Private, loamy clay.
Maynard street	From Dale street	West Roxbury.	00	43	193 83	60 22	5 50	259 55	Private, elay and rock.
	Totals		:	15,205	\$35,937 68	\$24,926 04 \$1,659	\$1,659 98	\$62,523 70	
Penniman road	Between Hano and Braintree streets,	Brighton.	10	367	\$1,070 31	\$492 50	\$27 15		\$1,589 96 Private, sand and gravel.
Redford street	Between Brainerd road and Common	Brighton.	10	410	1,179 44	524 62		1,729 94	25 88 1,729 94 Private, sand and clay.

2,473 14 Public, granite block and con-	Public, granite block and concrete base.	Public, granite block and con-	6 Public, macadam.	1,862-33 Public, macadam.		2.994 31 Private gravel.			1,465 59 Private, gravel.	1,023 36 Private, rock hard pan.	40 Public, sand and ashes.	2,622 57 Public, clay.	2,170 69 Private, rock and clay.	9	\$2,556 49 Public, sand and gravel.	3,775 46 Private, clay.	9.5
	1,931	1,545 00	156 96								423			\$21,989 00	\$2,556 4		\$6,331
69 43	21 72	10 61	38 51	19 41		57 70			28 74	23 00	28 75	22 28 28	49 50	\$395 45	\$31 63	63 25	\$94 88
946 44	613 28	518 03	36 00	540 65		1.071 39			654 67	304 48	135 62	871 09	596 46	\$7,305 23	\$802 48	1,088 60	\$1,894 08
1,457 27	1,296 75	1,007 96	118 08	1,302 27		1.865 22			782 18	88 269	259 03	1,729 20	1,524 73	\$14,288 32	\$1,719 38	2,623 61	\$4,342 99
391	204	304	36	510	535	10	10	0	281	246	110	631	417	4,457	467	778	1,245
01	10	10	2	01	01	10	10	×	10	10	2	10	10	10	51	12	2
City Proper.	City Proper.	City Proper.	Dorchester.	Dorchester.	East Boston.	East Boston.	East Boston.	East Boston.	East Boston.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.		Brighton.	Brighton.	
Between Franklin and High streets City Proper.	Between Purchase street and Atlantic avenue.	Between Harrison avenue and Albany street.	At Redfield street	Between Wahnut and Woodworth streets.	Between Lillian and Annavoy streets.	At Bayswater street	At Bayswater street	At Bayswater street	From Walley street	Between Cowing and La Grange West Roxbury. streets.	Between Centre street and Welch West Roxbury, road.	At Washington and Kittredge streets, West Roxbury.	Between Church street and Theodore West Roxbury. Parker road.	Totals	Between North Beacon and Hich-born streets.	From Kennick street	Carried forward
Congress street	Congress street	Randolph street	Woodworth street.	Redfield street	Bayswater street	Teragram street	Annavoy street	Nancia street	Waldemar avenue	Partridge street	Woodbrier road	Cornell street.	Schirmer road		Arthur street	Larch street.	

Cost of Extension of Main Pipe.—Continued.

				ŀ	-				
Утивет.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials. etc.	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	Rетагк∙.
	Brought forward		12	1,245	\$4,342 99	\$1,894 08	88 86\$	\$6,331 95	
Euston road	Between Washington street and Colonial road.	Brighton.	12	732	2,516 05	2,558 83	199 50	5,274 38	5,274 38 Private, rock.
Kneeland street	Between Utica street and Atlantic avenue.	City Proper	15	368	2,970 83	788 98	25 55	3,785 36	3,785 36 Publie, granite block, and concrete base.
Kneeland street	Between Whitmore and Washington, streets.	City Proper.	21	69	334 39	339 62	43 13	717 14	Public, granite block, and concrete base.
Blue Hill avenue	New York, New Haven and Hartford Railroad Bridge.	Dorchester.	51	133	773 72	186 25	23 00	982 97	Publie, loamy elay.
Old Colony Parkway	Between Tolman and Conley streets,	Dorehester.	12	592	2,167 21	793 S0	29 34	2,990 35	Publie, under construction.
Norwell street	Between Vassar and Carmen streets,	Dorehester.	52	349	1,189 42	668 32	27 15		1,884 89 Private.
Lorna road	From Morton street	Dorchester.	15	330	1,405 69	435 00	24 44		1,865 13 Private, asn filled.
Old Colony Parkway	At Tolman street	Dorehester.	12	14	96 19	135 28	62 9		238 06 Publie, dirt.
Morton street	Between Evans and West Selden streets.	Dorchester.	12	575	1,759 42	955 48	08 Sc	2,773 70	2,773 70 Public, macadam and clay.
Allendale street	From Hill Top street	Dorehester.	12	124	409 12	136 40	4 31	549 83	549 83 Private, gravel, dirt.
Tehapitoulas street	From Poydras street	Hyde Park.	12	318	1,288 01	1,101 97	71 50		2,461 48 Private, rock, gravel and clay.
Poydras street	Between Tchapitoulas and River streets.	Hyde Park.	12	415	1,408 79	1,574 38	00 66		3,082 17 Public and private, brick and clay.
Moore street	Between Southampton street and South Bay avenue.	Roxbury.	21	916	4.048 04	2,329 15	71.88		6.449 07 Private, granite block and con-
South Bay avenue	South Bay avenue   Between Moore and Burnham streets	Roxbury.	12	12 162					crete base.

2,944 33 Private, granite block and con- crete base.	Public, rock.	1,596 71 Parkway, gravel and loam.	Private, gravel.	Private gravel.	1,081 77 Public, maeadam.	Publie, elay.	Public, rock and gravel.	1,810 58 Private, clay.	1,531 76 Private, elay.	Publie, gravel and macadam.	1,261 97 Private, sand.	1,796 50 Public, rock and sandy clay.	808 58 Pubhe, rock and clay.	Private, elay.	1,054 23 Private, clay.	
	9,320 05		1,216 73	1,411 69		1,111 34	4,106 83	1,810 58		3,430 89				933 34		877,803 78
10 90	92 00	41 69	11 50	47 90	14 38	22 68	105 89	38 81	36 65	59 73	15 61	43 44	21 72	25 88	10 18	\$1,378 03
939 90	5,177 71	1,384 27	248 60	552 15	260 70	311 41	1,261 35	477 15	423 05	06 906	362 90	551 90	450 90	124 60	368 02	12 12,605 \$48,726 07 \$27,699 05 \$1,378 03 \$77,803 78
1,993 53	4,050 34	3,170 75	956 63	811 64	69 908	777 25	2,739 59	1,294 62	1,072 06	2,464 26	883 46	1,201 16	335 96	782 86	676 03	\$48,726 07
513	1,029	827	223	257	252	212	725	317	255	738	231	251	72	182	621	12,605
12	12	12	12	12	12	12	12	12	12	12	15	12	12	12	12	1
Roxbury.	Roxbury.	Roxbury.	Roxbury.	Roxbury.	Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	West Roxbury.	
Burnham street From Southampton street	Between Warren street and Hum- boldt avenue.	Between Brookline and Longwood avenue.	Between Riverway and Pilgram road,	Between Southampton street and South Bay avenue.	Between Riverway and Longwood avenue.	South from Pelton street	East side, between Rockland street and Dedham line.	Between Theodore Parker road and Church street.	From Beech street	Between Lasell street and Brook Farm road.	From La Grange street	Between Brookside avenue and Bismarck street.	Between Germania and Porter streets,	From Saville street	Between Weld street and Parkton road.	Carried forward.
For	ñ													-		

Cost of Extension of Main Pipe. -- Concluded.

Remarks.		184 33 Private, elay.	2,035 60 Public, clay and gravel.	1	\$9,706 25 Public, land, mixed filling and		13,834 53 Public, state highway, clay.				\$561 00 \$15,280 69 Public and private, bitulithic			6
Total Cost.	\$77,803 7			\$80,023 71					\$388 13 \$23,540 78		\$45,280 6			\$561 00 \$45,280 69
Cost of Inspection.	\$1,378 03	1 44	22 00	\$1,401 47	\$195 50		192 63							
Cost of Labor.	\$27,699 05	49 50	657 65	\$28,406 20	85,806 28 83,704 47		4,038 25		\$15,409 93 \$7,742 72		\$28,460 32 \$16,259 37			\$16,259 37
Cost of Depart- ment Materials, etc.	\$48,726 70 \$27,699 05 \$1,378 03 \$77,803 78	133 39	1,355 95	\$50,216 04 \$28,406 20 \$1,401 47	\$5,806 28		9,603 65				\$28,460 32			\$28,460 32 \$16,259 37
Size.	12 12,605	30	374	12 13,009	1,257	90	1,963	61	3,245	2,296	283	192	22	2,771 $22$
Size. (Inch.)	12	12	12	12	16	11	16	16	12	çı T	57	22	12	24 12
District.		West Roxbury.	West Roxbury.		Brighton.	Brighton.	West Roxbury.	West Roxbury.		Brighton.	Brighton.	Brighton.	Brighton	
Location.	Brought forward	From West Border road	Between Eldridge and Burley streets,	Totals	Between Western avenue and Cambridge street	At Charles River Reservation	Between West Roxbury Parkway and La Grange street	Off West Border road Connection to Mt. Bellevue tank West Roxbury.	Totals	Between Commonwealth avenue and Beacon street.	Between Sutherland road and Colonial road.	From Commonwealth avenue	At Commonwealth avenue	Totals
STREET.		Stratford street	Dale street		Charles River Reserva- tion.	Cambridge street	West Border road	Off West Border road		Sutherland road	Commonwealth avenue	Colonial road	Colonial road	

Cost of Replacement of Main Pipe.

STREET.	Location.	District.	e. Inch.)	Feet.	Cost of Depart- ment Material,	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	.əziS İsnişi (.hənl)	Remarks.
			zis		etc.				10	
Harrison place	Off Russell street	Charlestown.	0.1	105	\$135 37	\$75.06		\$210 43	1. 3 ead.	\$210 43 ½, ½ Private, tarvie.
Townsend place	From Carver street	City Proper.	9	169	257 70	374 63	\$20 13	652 46	4	4 Private, granite block and gravel base.
Salem Hill court	From Holden row	Charlestown.	9	75	173 28	157 50	:	330 78	+	Public, dirt.
Holden row	From Wesley street	Charlestown.	9	130	151 49	122 48		273 97	7	Public, dirt.
	Totals		9	37.1	\$582 47	\$654 61	\$20 13	\$1,257 21		
Province court	From Province street	City Proper.	00	17	\$221 15	\$197.27	\$5.43	\$423 S5	9	6 Public, granite block and gravel base.
Oneida street	Between Harrison avenue and Albany street.	City Proper.	00	504	1,395 59	751 85	00 69	2,216 4:1	9	6 Public, granite block and concrete base.
Branch street	Between Butler and Midway streets.	Dorchester.	-x	120	214 04	159 47	6 75	380 26	φ	6 Private, clay.
Standard street	Between Manchester and Free- land streets.	Dorchester.	×	8	389 35	593 37		982 72	9	Public, under construction.
Freeland street	At Standard street	Dorchester.	21	9					21	
Humphreys place	From Humphreys street	Dorchester.	S	358	S10 38	555 94	19 69	1,386 01	÷	4 Private, macadam.
Greenwood avenue	Between Thatcher street and Metropolitan avenue.	Hyde Park.	S	935	2,020 01	1,427 04	56 50	3,503 55	7	4 Public, gravel.
	Carried forward		×	2,041	\$5,050 52	\$3,684 94	\$157.37	\$8,892 83		

Cost of Replacement of Main Pipe.—Coneluded.

Remarks.		6 Public, gravel and macadam.	Public, macadam.	Publie, maeadam.	6 Public, clay and rock.	6 Publie, clay.		8 Publie, clay.	2,394 24 6, 12 Public, granite block and gravel base.		Public, granite block and			6 Public, under construction.
.əsi8 lenıgirO (.dənl)			9	4					6, 12	12		9	9	9
Total Cost.	\$8,892 83	715 72	149 48	2,143 49	1,096 63	969 59	\$13,967 74	\$574 43			4,374 53			3,762 02
Cost of Inspec- tion.	\$157.37	8 25	88	38 01	25 21	18 33	\$250 05	\$28 75	43 44		179 19			66 13
Cost of Labor.	\$3,684 94	263 55	18 90	970 49	554 3S	375 55	85,867 81	\$192.58	1,083 18		1,488 69			1,118 38
Cost of Depart- ment Material, etc.	\$5,050 52	443 92	127 70	1,134 99	517 04	575 71	87,849 88	\$353 10	1,267 62		2,706 65			2,577 51
Feet	2,041	116	15	419	184	332	3,137	132	126	280	17	1+	17	635
Size. (Inch.)	»	œ	x	o	x	x	o o	10	21	12	12	œ	œ	12
District.		Hyde Park.	Hyde Park.	South Boston.	West Roxbury.	West Roxbury.		West Roxbury.	City Proper.	City Proper.	City Proper.	City Proper.	City Proper.	Dorchester.
Location.	Brought forward	At Metropolitan avenue	Between Riverway and Pilgrim road.	Between F and Dorehester streets.	From Beech street	Metropolitan avenue From Washington street	Totals	Between Washington and Kit- tredge streets.	Between School and Bromfield streets.	Between Cotting and Green streets.	At Leverett street	At Leverett street	At Leverett street	Between Morton and Woolson streets.
Street.		Westminster street	Short street	Bowen street	Winton street	Metropolitan avenue		Cornell street	Province street	Leverett street	Causeway street	Lyman street	Cotting street	Wildwood street

	6 Public, macadam.				6 Public, macadam.			6 Public and private, rock and clay.	4, 6 Publie, gravel.	Public, macadam.	Public, gravel and macadam.	6 Public, macadam.	4 Public, maeadam.	6 Publie, gravel and elay.	6 Public, rock and clay.	
9	- e	9	[ 3, 6]	9		×	- <del>-</del> -	9 9	4, 6 P	× ×	- b	- 9 - 9	4	- B	-9 	
	4,724 49				4,501 79			938 75	4,232 43	711 54	6,972 67	8,442 34	1 514 73	511 51	563 33	8016 CD 212 617 27
	106 68				73 31		-	9 8	57 50	S 25	93 50	92 00	12 13	8 23	43 44	60.16.09
	1,634 37				1,205 38			986 50	1,365 50	181 03	2,156 50	2,142 72	419 07	00 111	122 50	\$99 159 73 \$13 647 89
	2,983 41				3,226 10			619 25	2,809 43	519.26	4,722 67	5,907 62	1,053 53	362 26	397 39	820 159 73
265	24	**	870	10	52	==	31=	174	922	1.7	1,169	1,803	270	25	115	X 130
21	21	1.	21	10	X	X	λφ	21	21	21	21	21	21	21	21	2
Dorchester.	Dorchester.	Dorchester.	Dorchester.	Dorchester.	Dorehester.	Dorchester.	Dorchester.	Hyde Park.	Hyde Park.	Hyde Park.	Hyde Park.	Roxbury.	Roxbury.	West Roxbury.	West Roxbury.	
Blue Hill avenue Between Harvard and Paxton Dorchester.	Hazleton street At Blue Hill avenue	Paxton street At Blue Hill avenue	Hun-phreys street Between Groom and Dudley streets.	Harrow street At Humphreys street	Wendover street At Humphreys street	Holden street At Humphreys street	Quincefield street At Humphreys street	Poydras street Between Tehapitoulas and River streets.	Thatcher street Between Hyde Park and Metropolitan avenues.	Central avenue From Metropolitan avenue	Metropolitan avenue Between Thatcher and River streets.	Pilgrim road Between Brookline and Long-wood avenues.	Plymouth street Between Riverway and Long-wood avenue.	Dale street Between Eldridge and Dudley West Roxbury.	Bismarek street Between Germania and Porter West Roxbury streets.	Totals

# Cost of Relocation of Main Pipe.

Угавет.	Location.	District.	Size. (Inch.)	Size. (Inch.) Feet	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	əsi8 İnnigirO (.dənl)	Remarks.
Homphreys street	Between Harrow and Dudley streets.	Dorehester.	9	142	8247 60	\$23 41	\$15.75	\$286 76	9	Public, sand and gravel.
Parley avenue	Between Rockview and Centre West Roxbury.	West Roxbury.	9	165	310 05	80.1.20	65 25	1,179 50	9	6 Private, rock.
	Totals		9	307	\$557 65	\$827 61	\$81 00	\$1,466 26		
Devonshire street	Between Milk and Franklin streets.	City Proper.	o	262	\$528 01	\$77.50		\$605.51	x	Public, granite block and concrete base,
Beryl street	Between Cornell and Brooks streets.	West Roxbury.	œ	150	127 86	531 25	40 25	699 36	x	Public, under construction.
	Totals		o	412	\$655 87	\$608 75	\$40.25	\$1,304 87		
Leston street	From Morton street	Dorchester.	10	18	8115 75	\$69 10	-	8184 85	10	10 Public, gravel.
Sutherland road	Between Orkney road and Beacon streets.	Brighton.	2	195	350 63	495 00	25 00	900 63	12	Public, macadam.
Harrison avenue	At railroad bridge at Noanet street.	City Proper.	21	13	100 46			100 46	51	Public, granite block and concrete base.*
Broadway	At Harrison avenue	City Proper.	51	36	178 88	:	:	178 88	21	Public, granite block and con- crete base.*
Federal street	Between Franklin and High streets.	City Proper.	21	117	372 98	235 20	23 00	631 18	51	12 Public, granite block and concrete base.
Neponset Bridge	At Neponset avenue, Quincy side.	Dorchester.	1 1 1 1	†12 594	3,526 62	2,612 04	64 07	6,232 73	12	
Neponset Bridge	At Neponset avenue, Boston side,	Dorchester.	22	81 †12				:	8, 12	
Neponset avenue	At Neponset Bridge, Boston side.	Dorchester.	<u>:</u>	230	:	:			12, 16	12, 16 Publie, granite block and concrete base.
	Totals		12	1,277	84,529 57	\$3,372 24	\$142 07	\$8,043 88		
Water street	Between Washington and Devon-Shire streets.	City Proper.	24	73	\$2,213 85	\$3,326 23	:	\$5,540 08	24	24 Public, granite block and corcrete base.
	* I along moid by Mary Darland Walanhous and Polamonth Commons	Danlond Tolombe	1 6	Tolor	The orthogram	in a		+ Steel		

\* Labor paid by New England Telephone and Telegraph Company.

### WATERWORKS STATISTICS - CITY OF BOSTON.

For the Fiscal Year Ending January 31, 1925.

### Distribution.

Mains.

Kind of pipe: Cast iron, wrought iron.

Sizes: 2-inch to 48-inch.

Extended, miles, 7.27. Sizes, enlarged, miles, 2.11.

Total miles now in use, 901.01. Public hydrants added, 116.

Public hydrants now in use, 10,144.

Stop gates added, 163.

Stop gates now in use, 13,656.

Stop gates smaller than 4-inch, 31.

Number of blow-offs, 695.

Range of pressure on mains, 30 to 90 pounds.

### Services.

Kind of pipe and size, lead and lead lined: \(\frac{1}{2}\)-inch to 2-inch, east iron. 2½-inch to 12-inch, wrought iron and cement lined: ¾-inch to 2-inch. Extended, feet, 29,759.

Total miles now in use, 603.74.

Service taps added, 1,284.

Total service taps now in use, 112,182.

# High Pressure Fire System Extension.

		-			
Appropriations to January 31, 1925					\$2,128,000 00
Expenditures to January 31, 1924				\$1,764,293 32	
Expenditures during the year 1924-25:					
Extension:			İ		
Engineering	\$8,080	91		į	
Automobiles	452	88			
Yard	1,499	90		ļ	
Inspection of pipe laying	2,638	12			
Inspection of castings	898	44			
Tools and repairs	60	09			
Vacations	305	<b>7</b> 3			
Atlantie avenue	17,754	67			
Berkeley street	30	95			
Bowker street	6,296	18			
Broad street	2,157	95			
Canal street	13,254	71			
Chardon street	9,003	62			
Carried ferward	\$62,434	15		\$1,764,293 32	\$2,128,000 00

# High Pressure Fire System Extension.—Concluded.

Brought forward	\$62,434 1	5	\$1,764,293 32	\$2,128,000 00
Chatham street	7,899 5	8		
Commerce street	8,917 8	0		
Commercial street	515 3	2		
Custom House street	2,504 8	6		
Doane street	4,479 5	8		
Fleet street	9,050 6	8		
Hanover street	12,068 43	2		
Hawkins street	6,411 7	9		
India street	5,698 8	5		
Kilby street	6,964 9	1		
Kingston street	4,056 13	s		
Kneeland street	17,529 3	9		
Market street	1,979 7	2		
Milk street	5,681 0	3		
North street	4,147 2	1		
Portland street	271 20	o		
South street	5,094 2	1		
State street	4,069 6	6		
Sudbury street	2,714 1	1		
Union street	14,506 9	5		
Washington street	5,093 2	5		
Total extension 1924-25.		\$192,088 SS		
Maintenance:				
Main pipe repairs	\$167 1	s		
Hydrant repairs	2,078 7	2		
Sewer service	109 3	2		
Total maintenance		. 2,355 22		
Stock purchased		. 127,881 38		
Total expenditures, 1924-25			322,325 48	
Total expenditures to January 31, 1925				2,086,618 80
Unexpended balance January 31, 1925				<b>\$41,381</b> 20

# APPENDIX F.

# REPORT OF THE BOSTON AND CAMBRIDGE BRIDGE COMMISSION.

Boston, February 1, 1925.

To the Honorable the Mayor:

Sir,—As commissioner for the City of Boston, I respectfully submit herewith the annual report of the Boston and Cambridge Bridge Commission for the year ending January 31, 1925.

This commission is composed of two members, one appointed by the Mayor of the City of Boston and the other by the Mayor of the City of Cambridge, under

provisions of chapter 467, Acts of 1898.

The commission has charge of the maintenance of the following-named bridges between Boston and Cambridge: Anderson, Cambridge Street, River Street, Cambridge and Prison Point.

As there is no separate appropriation made for the City of Boston's portion of the expenses of this commission, the same is taken from the appropriation for the Bridge and Ferry Division, Bridge Service. amount expended during the fiscal year ending January 31, 1925, was \$31,740.49.

Brookline Street Bridge (over Charles River AT COTTAGE FARM).

This bridge has been taken over by the Metropolitan District Commission for the purpose of making repairs, until such time as a new bridge is built at this location. Conferences have been held in regard to the new structure, since the plans must be approved by the mayors of Boston and Cambridge. It is hoped that the work of constructing the new bridge will be started during the coming year.

HARVARD BRIDGE.

The Metropolitan District Commission took over Harvard Bridge during the past year for the purpose of maintaining it and making it safe for the next ten or fifteen years. The draw span was eliminated and the bridge at this point reconstructed to make it as

wide as the rest of the structure.

The commission went to considerable expense in keeping this bridge open to travel both before and during the period of reconstruction. In the rebuilding of the bridge by the Metropolitan District Commission, under chapter 442, Acts of 1924, steel stringers were placed instead of the wooden stringers, 6-inch yellow pine plank floor laid on top of these stringers, and a granite block paving placed on the plank for a wearing surface. A new high concrete curb was placed on either side and granolithic sidewalks were built.

# PRISON POINT BRIDGE.

This bridge was entirely resheathed and considerable patching and repairs were made to the pier.

# RIVER STREET BRIDGE.

Two steel header beams, broken under the traffic, were replaced and some of the other steel work, which was in bad condition, was repaired. The bridge was sheathed once and a very large amount of under plank replaced.

It is expected that some time during 1925 this bridge will be rebuilt by the Metropolitan District Commission, as the plans for rebuilding have been approved by the

mayors of Boston and Cambridge.

# Western Avenue Bridge to Cambridge.

This bridge has been rebuilt by the Metropolitan District Commission and will be turned back to this commission for the purpose of maintenance some time during the coming year.

The bridge now is a three-arched reinforced concrete structure, 60 feet wide, and traffic between Boston and Cambridge has been greatly improved by the addi-

tion of this structure.

Respectfully submitted,

Joseph A. Rourke, Commissioner for the City of Boston.

Boston and Cambridge Bridges, Expenditures for the Year 1924-25.

Totals.	\$17,279 98	614 00	7,524 25	3,047 29	2,420 13	97 26	542 91	105 26	37 42	60 79	11 20	\$31,740 49
Western Avenue Bridge to Cambridge.	\$957.38	26 00			12 67					:		\$996 05
Prison Point Bridge.	\$5,905 52	242 00	1,895 50	625 15	11 37	65 76	88 14					\$8,833 44
Harvard Bridge.	\$2,310 44	208 00	3,052 93	1,829 45	367 65	:	296 76	105 26		:		\$8,170 49
Essez Street- Brookline Street				:	8175 96	:				:		\$175 96
Cambridge Bridge.	\$2,802 97		841 57		1,527 68		24.20					\$5,196 42
Cambridge Street- River Street Bridge	\$5,053 67	134 00	1,512 65	592 69	25 39	31 50	133 81					\$7,483 71
.Апдетвоп Втідgе.		\$4 00	221 60		299 41		:					\$525 01
Administration.	\$250 00			:			-		37 42	62 09	11 20	\$359 41
								Removing sweepings	Printing and stationery	Telephone and traveling expenses	Advertising.	

Monthly Summary of Draw Openings, Boston and Cambridge Bridges, February 1, 1924, to January 31, 1925.

	9			0						,		
	CAMBI RIVER	Cambridge Street- River Street Bridge.	REET-	Нава	Накуанр Внірде.	GE.	Prison	Prison Point Bridge.	RIDGE.	WESTERN	Western Avenue Bridge to Cambridge.	Bridge
	Vessels.	Carrocs.	.евшинефО	Vessels.	Cargoes.	Openings	Vessels.	Cargoes.	Ореппия.	Vessels.	Cargoes.	Openings.
1924.												
February	0	0	0	0	0	0	œ	-	4	0	0	0.
March	0	0	0	0	0	0	9	1	4	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	12	co	oo	0	0	0
June	0	0	0	0	0	0	9	П	4	0	0	0
July	0	. 0	0	0	0	0	9	-	4	0	0	0
August	œ	0	4	0	0	0	11	c.	œ	0	0	0
September	10	0	9	0	0	0	9	1	4	0	0	0
October	0	0	0	0	0	0	6	-	9	0	0	0
November	21	0	61	0	О	0	12	61	ø	0	0	0
December	0	0	0	0	0	0	12	61	o	0	0	0
1925.												
January	0	0	0	0	0	0	0	0	0	0	0	0
Totals	20	0	12	0	0	0	,88	15	58	0	0	0

Note.— Harvard Bridge was taken over by the Metropolitan District Commission July 28, 1924.

Western Avenue Bridge was taken over by the Metropolitan District Commission.

Annual Summary of Draw Openings, Boston and Cambridge Bridges, February 1, 1924, to January 31, 1925.

		Trgs.		1	BARGES.		AL	ALL OTHERS.	gi gi	TOTAL	TOTAL VESSELS.	ELS.		
Випов.	Day.	MgiZ	Total.	Day.	.tdgiZ	TetoT	Day.	.tdgiZ	.letoT	Day.	JugiZ	LetoT	Саткоев.	.eguineq()
Cambridge Street-River Street	9	٥	9	0	0	0	11	٥	-	20	0	50	0	22
Harvard	0	0	0	3	0	0	9	0	0	0	0	9	9	0
Prison Point	99	С	09	S.	О	S.	3	0	0	28	0	88	15	82
Western Avenue to Cambridge	0	3	0	С	0	0	Э	0	0	0	0	0	0	0
Totals.	3	=	99	z,	٥	Si Si	=	0	1 7	138	0	108	12	02





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